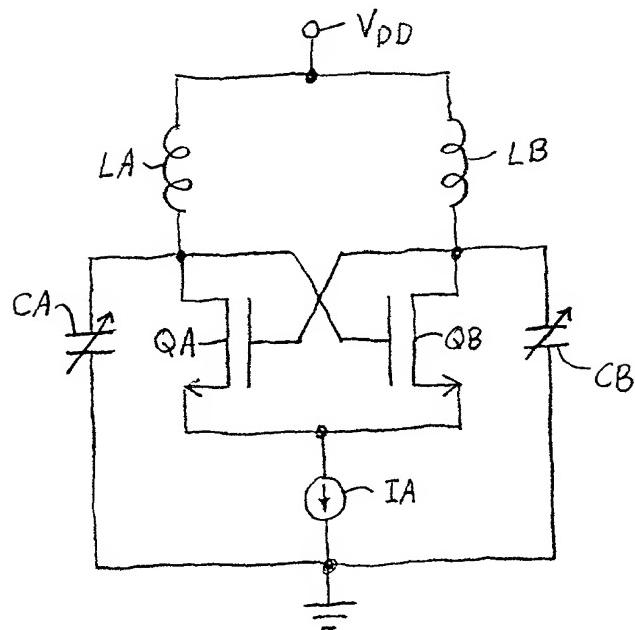


Fig. 1

PRIOR ART



TOP SECRET // COMINT

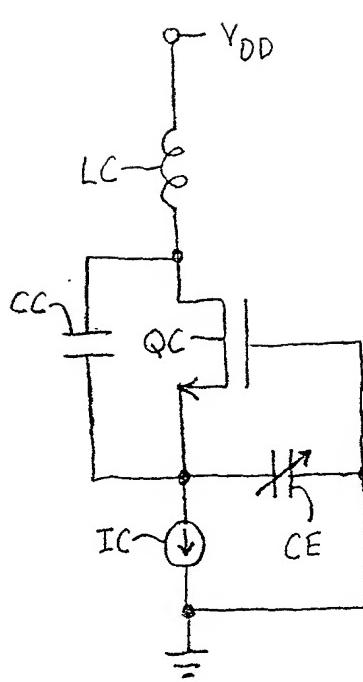


Fig. 2a PRIOR ART

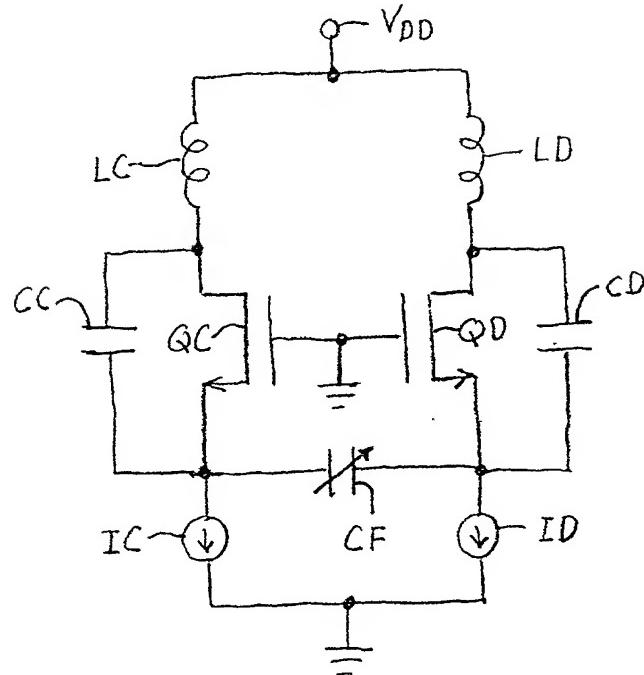


Fig. 2b PRIOR ART

Fig. 3

PRIOR ART

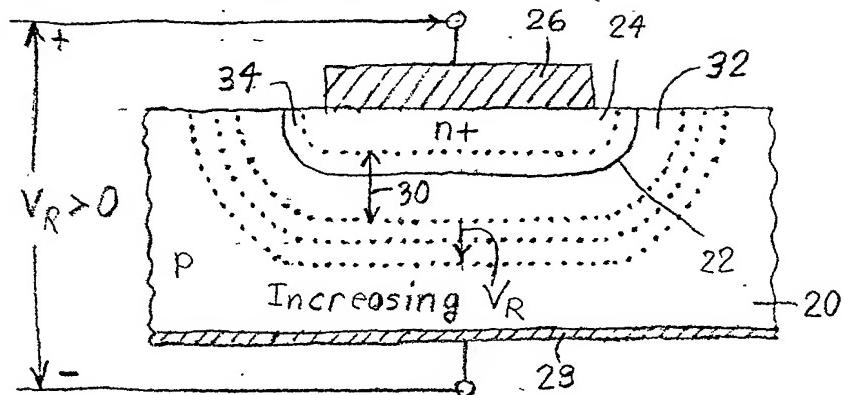


Fig. 4

PRIOR ART

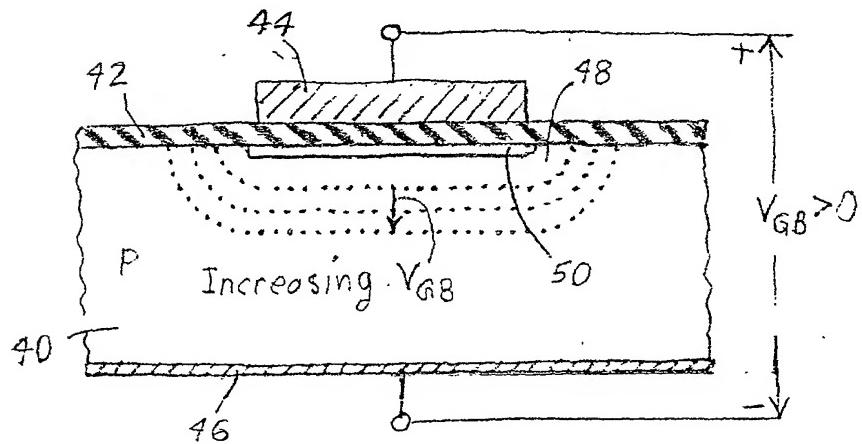
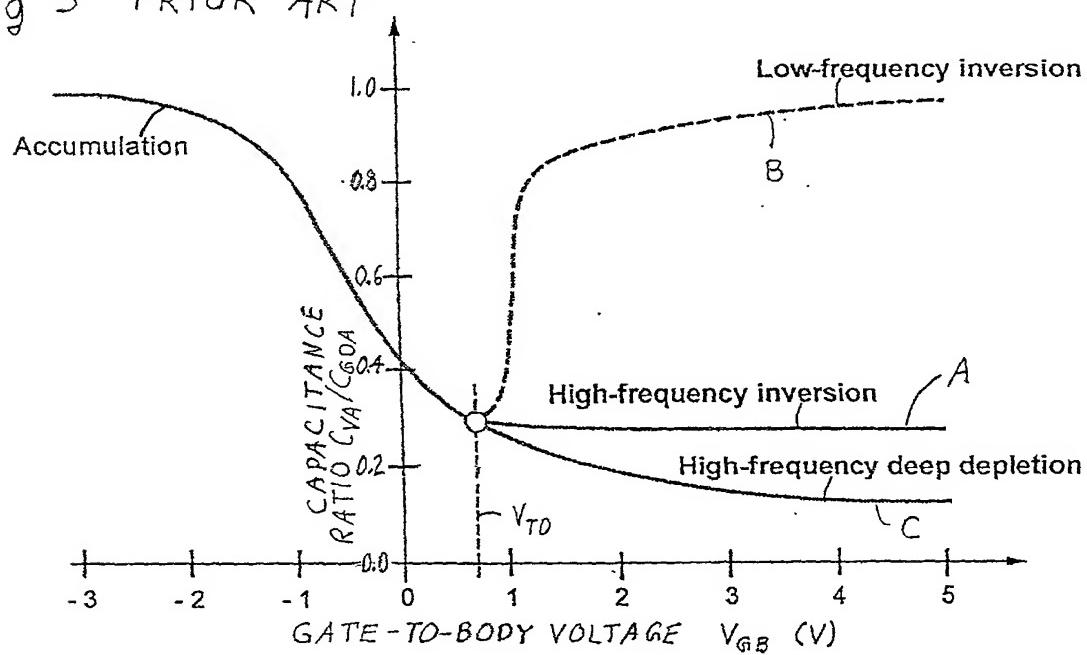


Fig 5 PRIOR ART



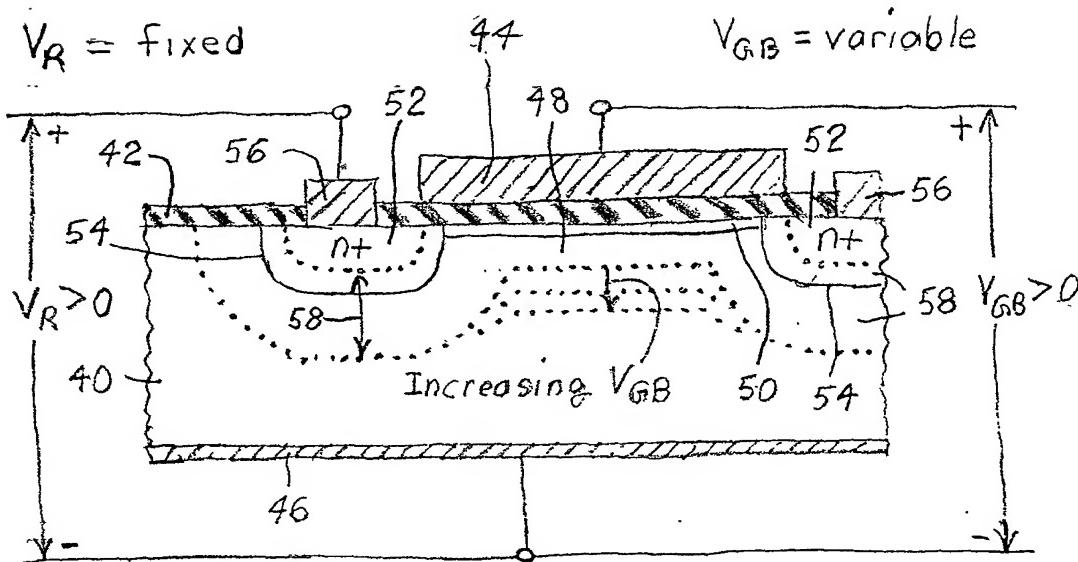


Fig. 6 PRIOR ART

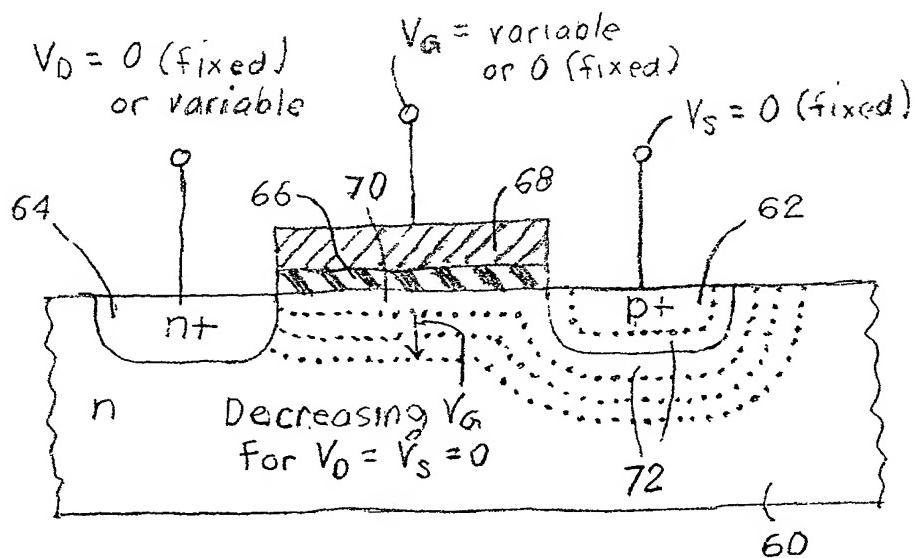


Fig. 7 PRIOR ART

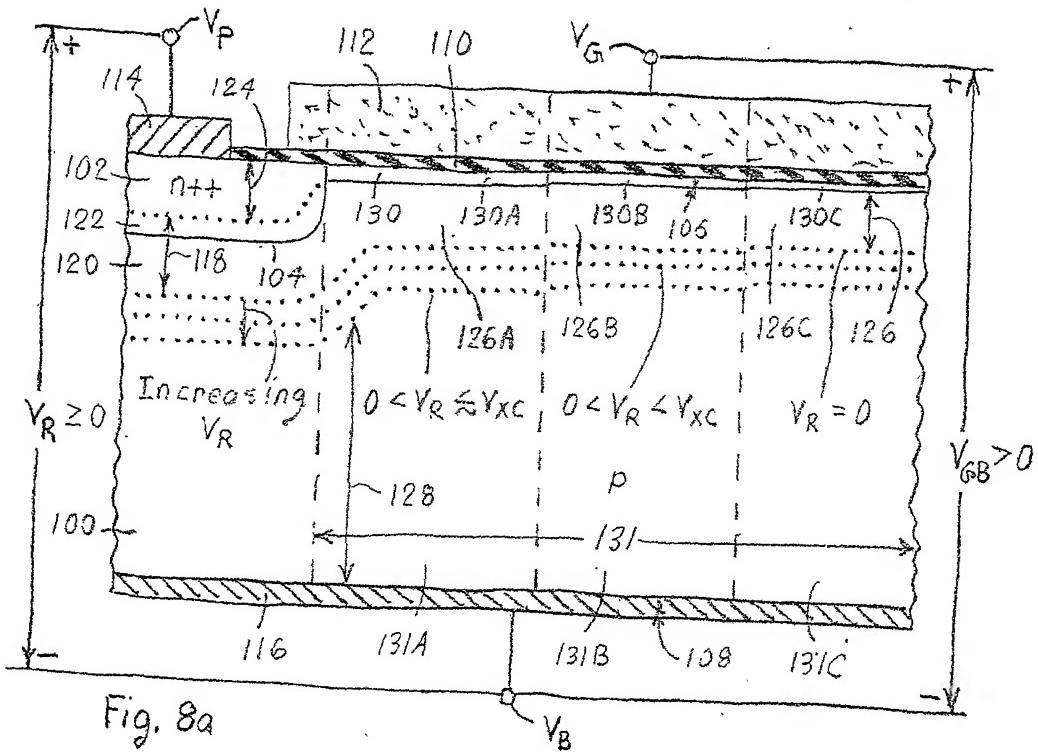


Fig. 8a

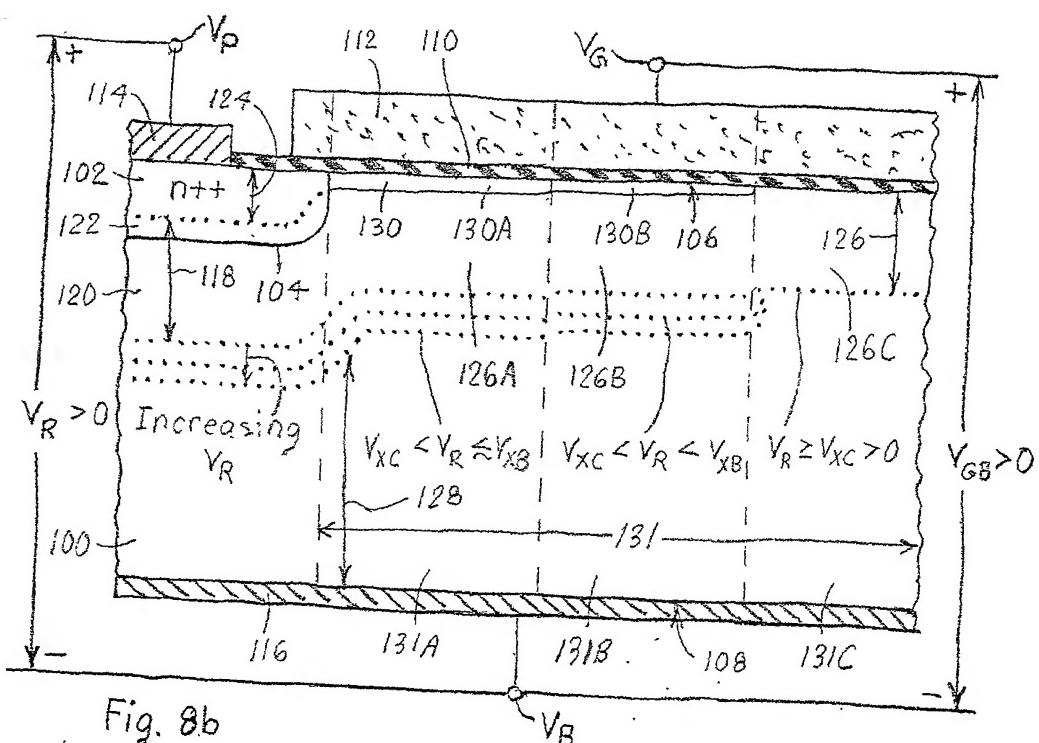


Fig. 8b

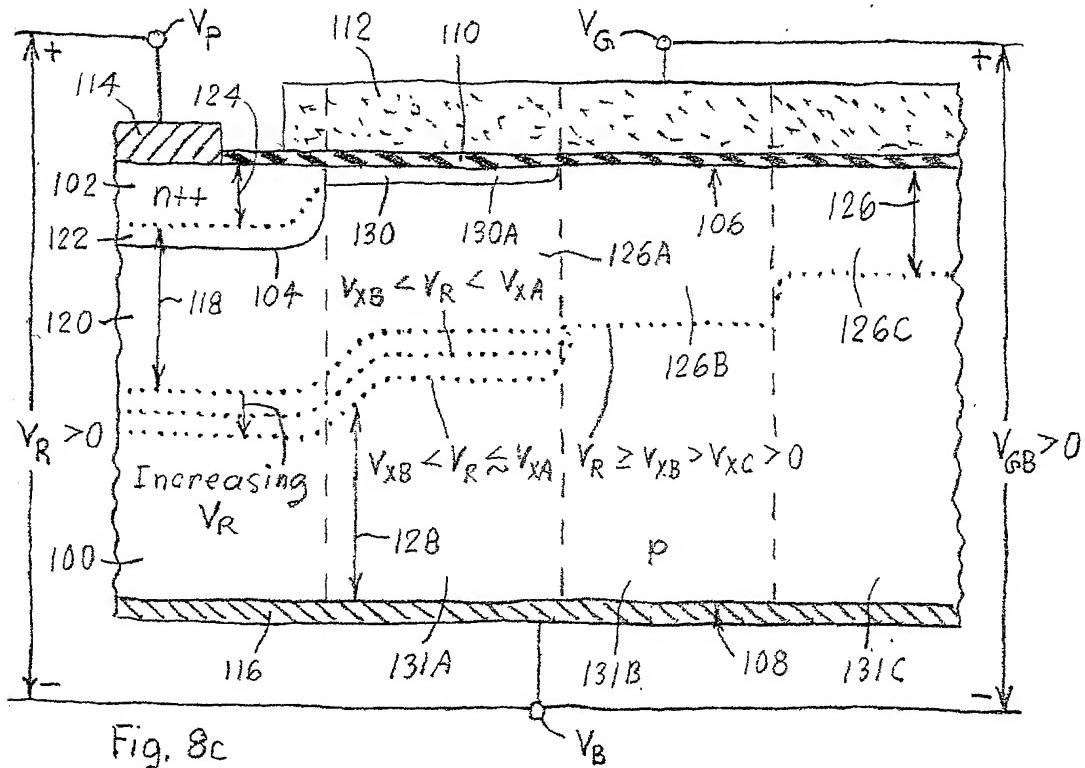


Fig. 8c

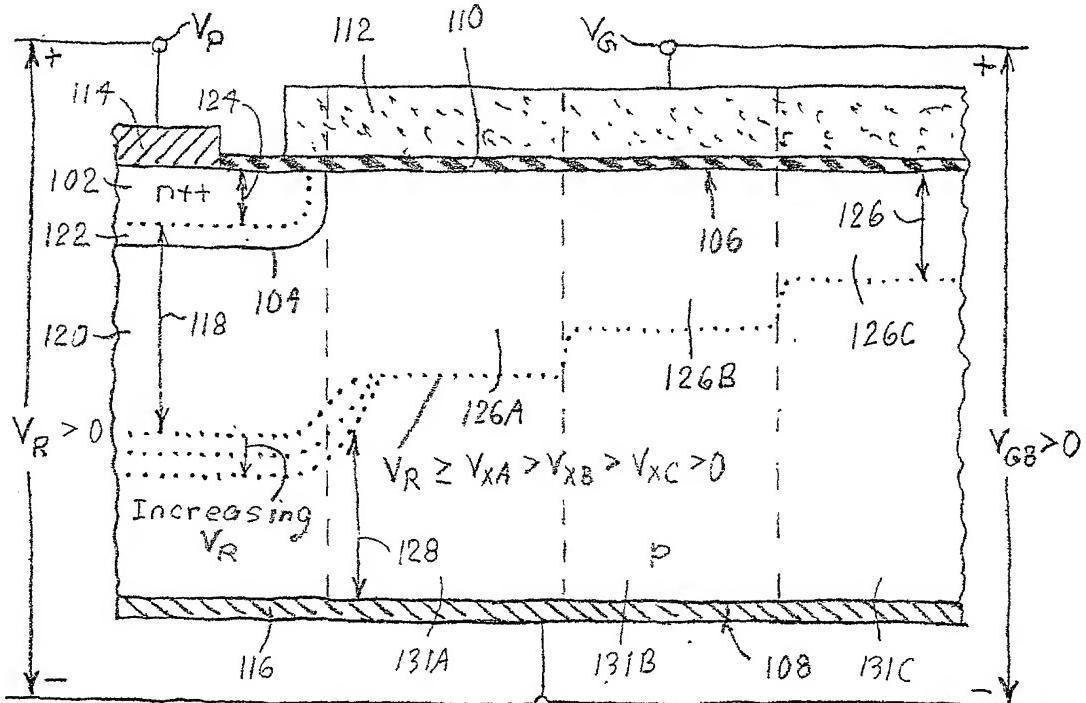


Fig. 8d

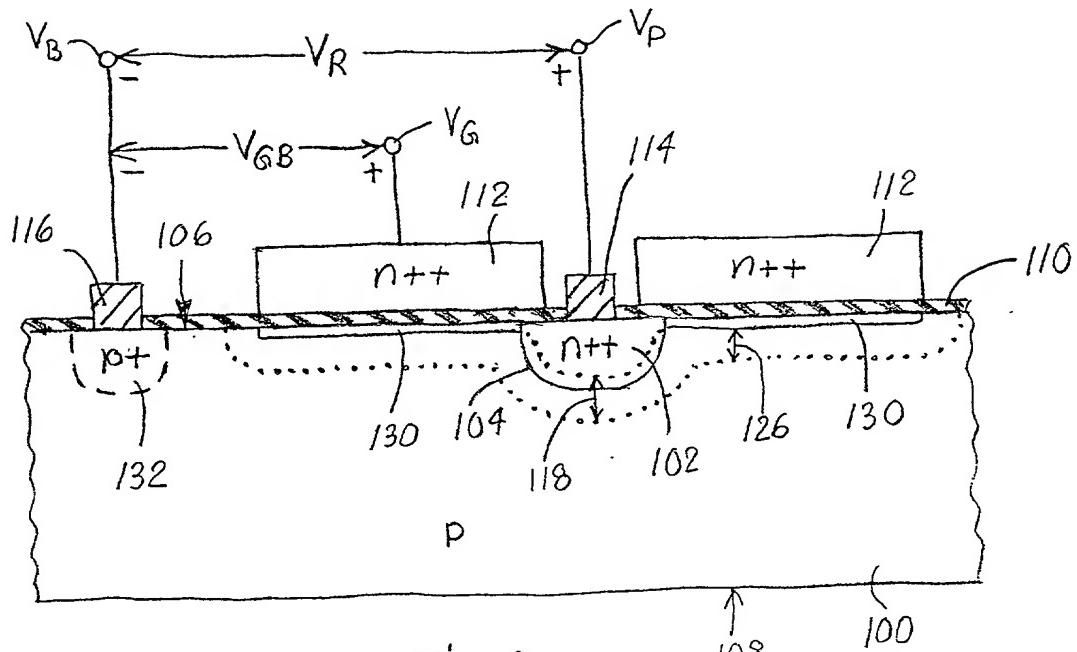


Fig. 9a

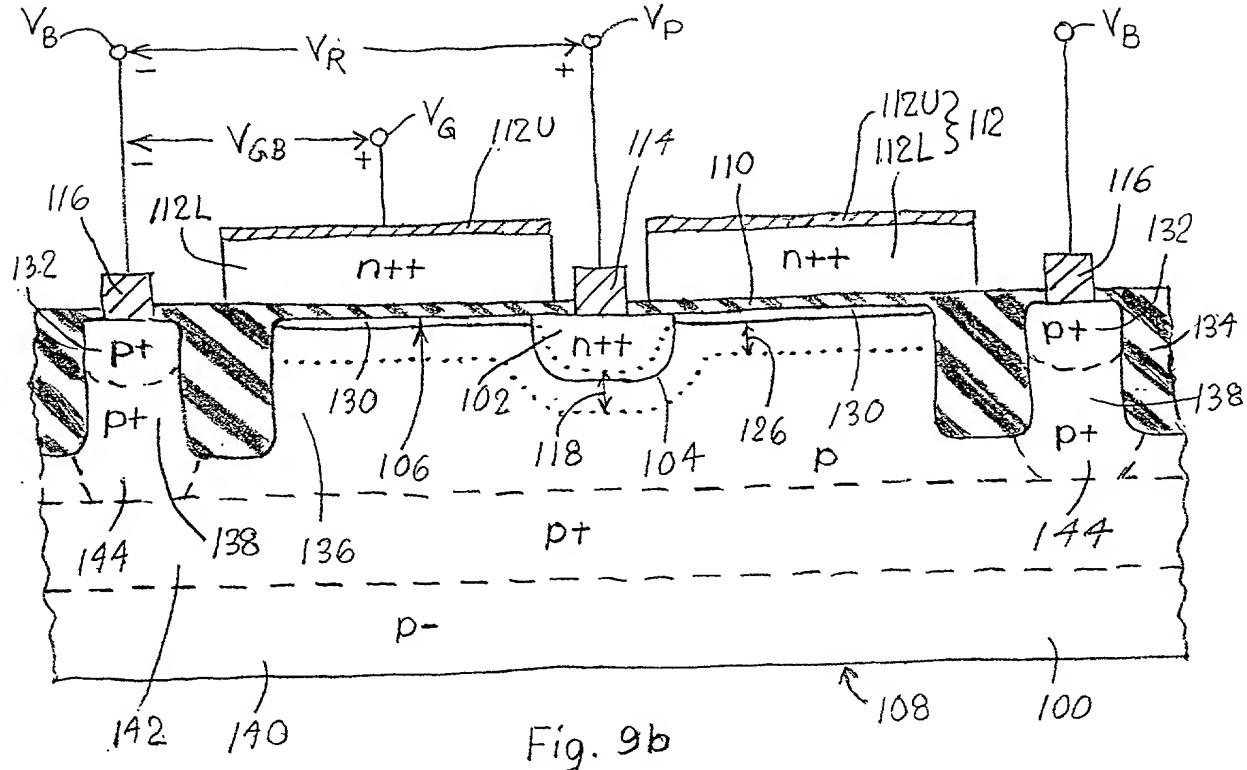


Fig. 9b

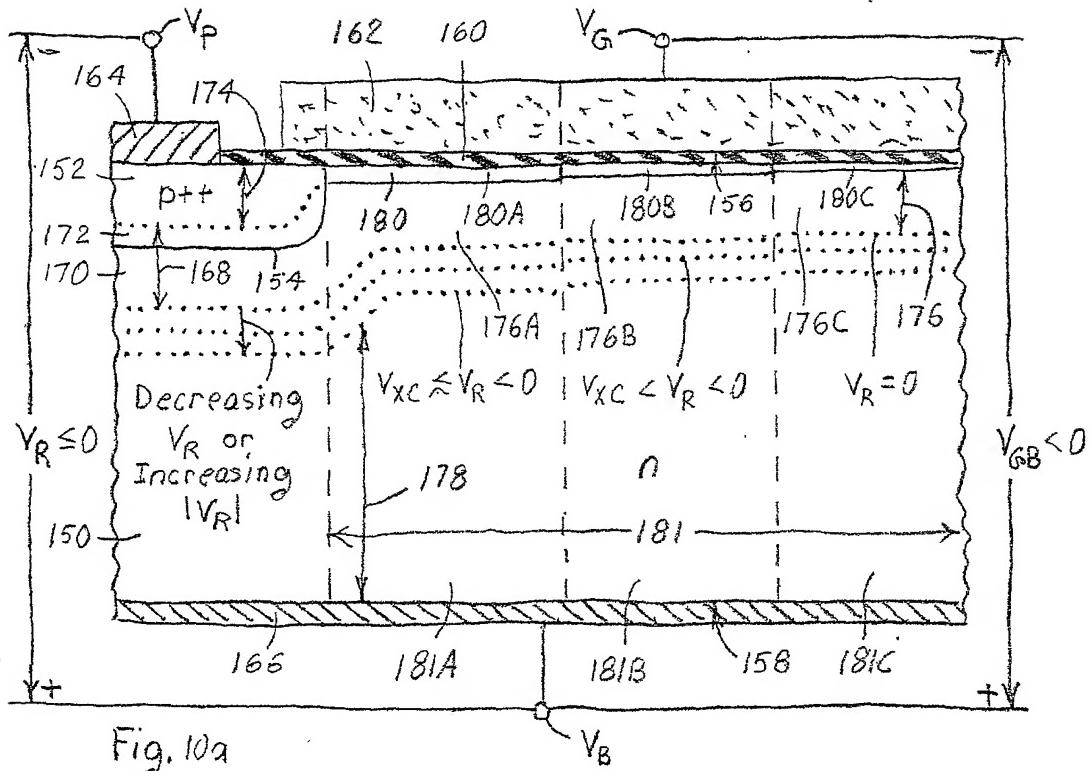


Fig. 10a

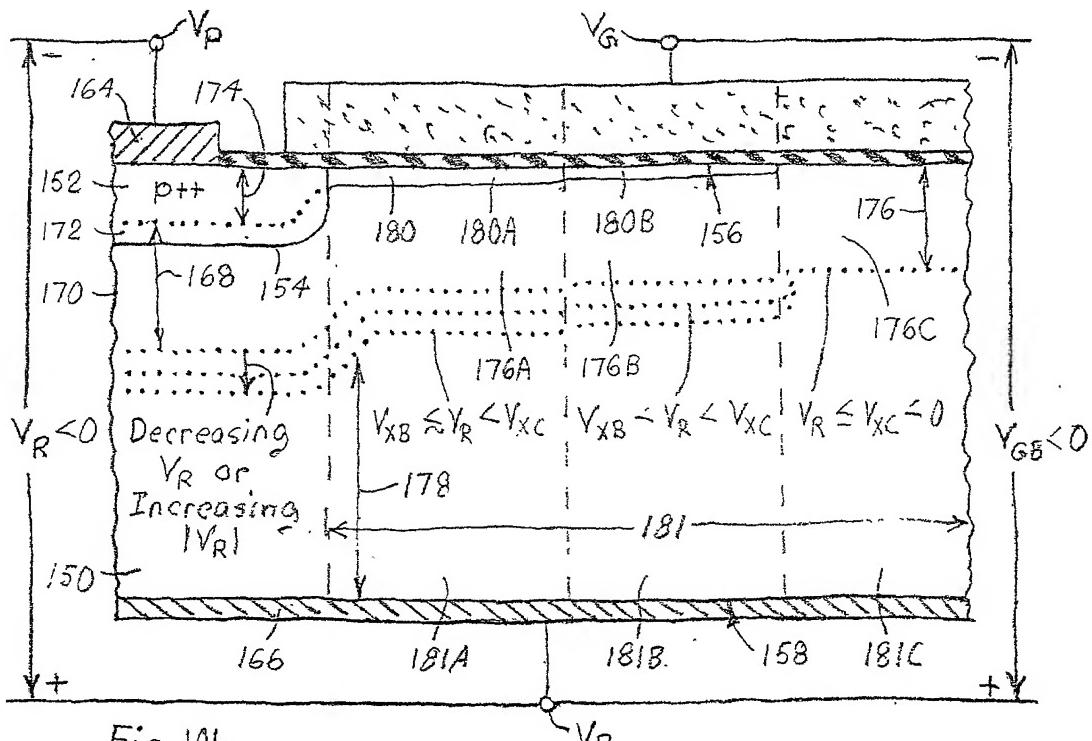


Fig. 10b

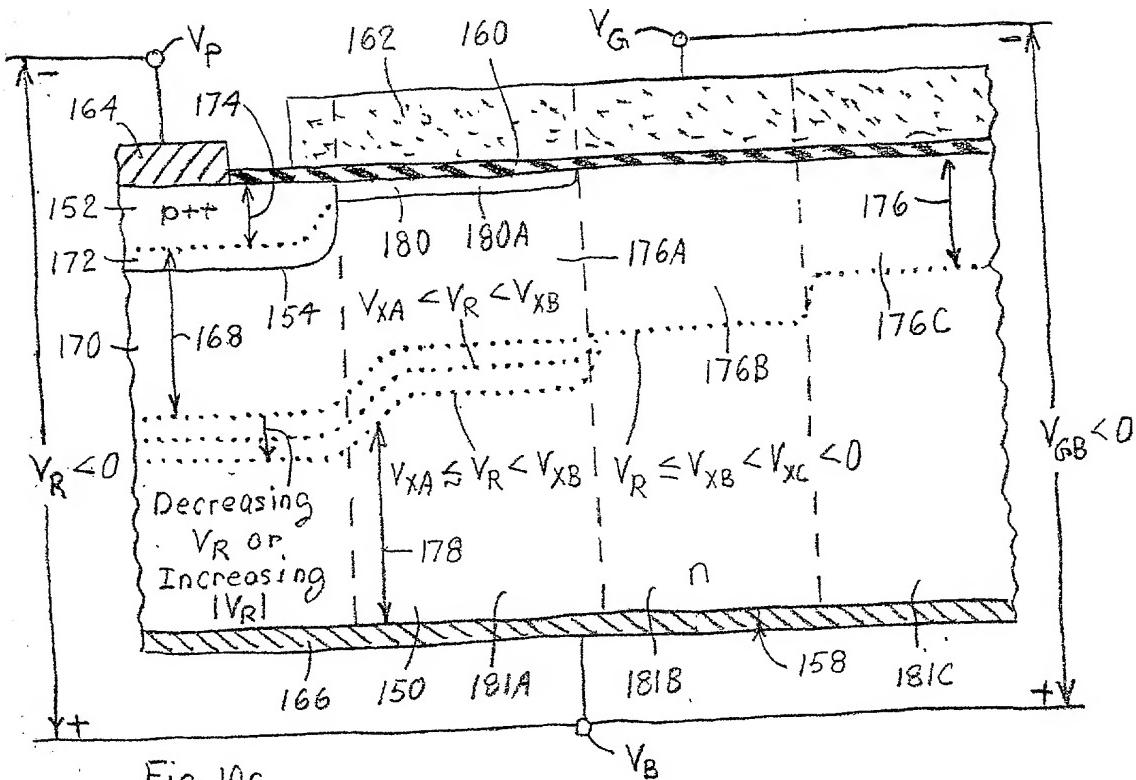


Fig. 10c

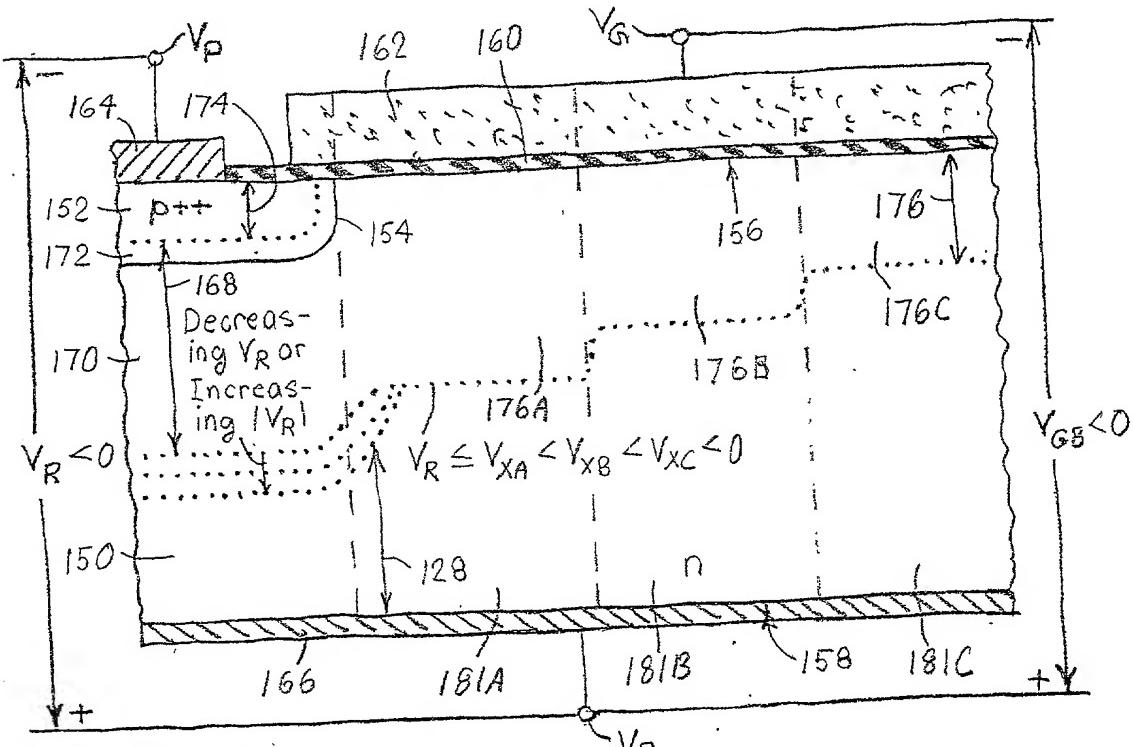


Fig. 10d

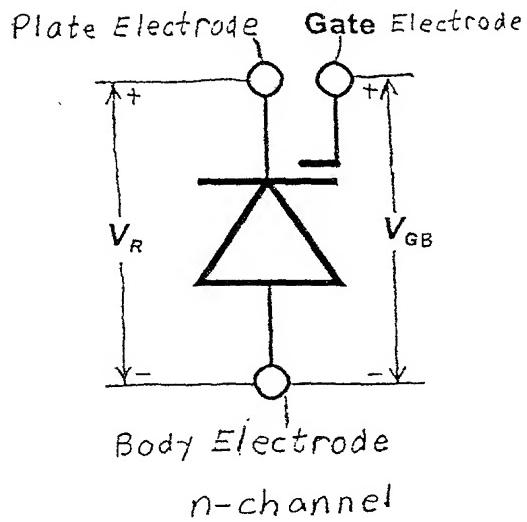
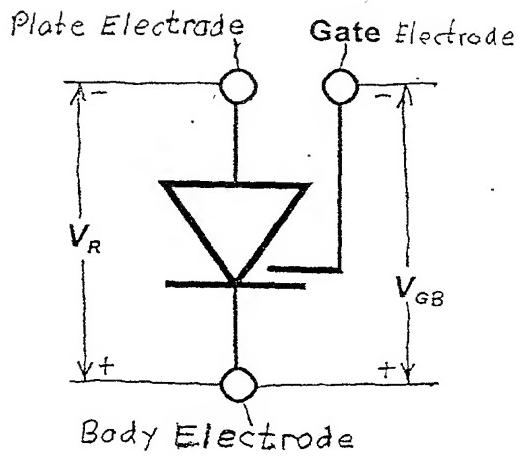


Fig. 11a



p-channel

Fig. 11b

Gate-Enhanced Junction Varactor With Gradual
Capacitance Variation
Constantin Bulucea NS-5127 US
Sheet 1 of 26

110 112

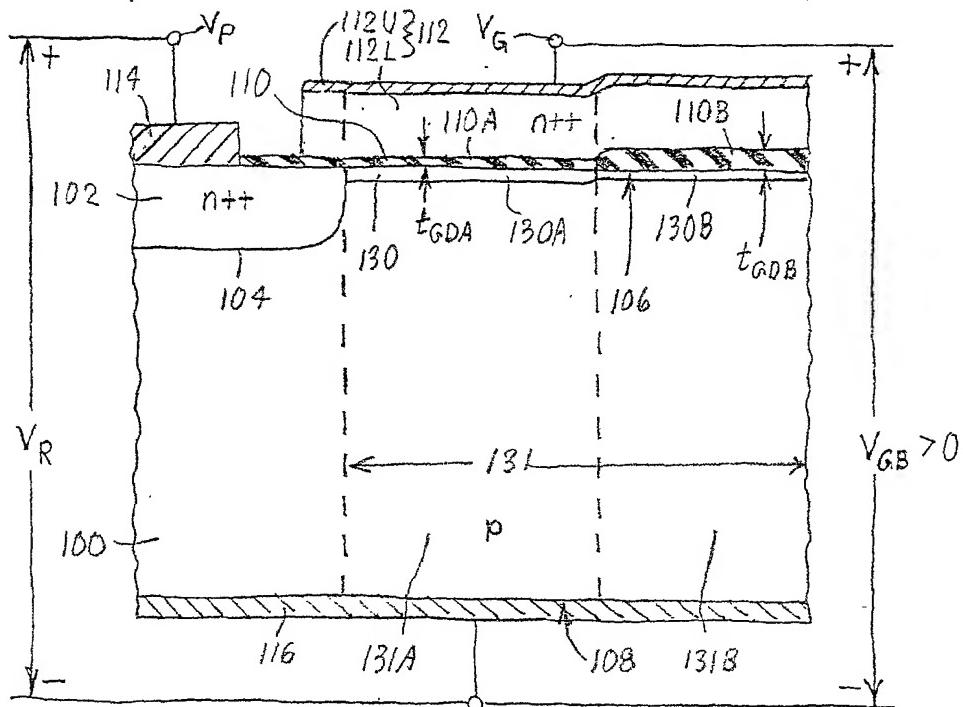


Fig. 12

10054552-011000

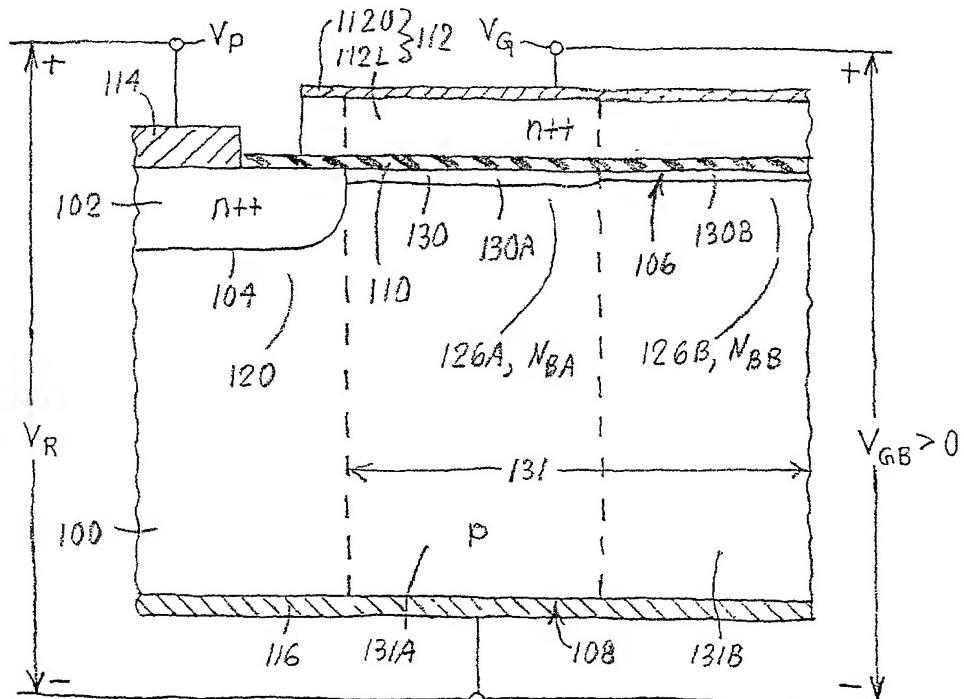


Fig. 13

**Gate-Enhanced Junction Varactor With Gradual Capacitance Variation
Constantin Bulucea NS-5127 US
Sheet 1 of 26**

NS-5127

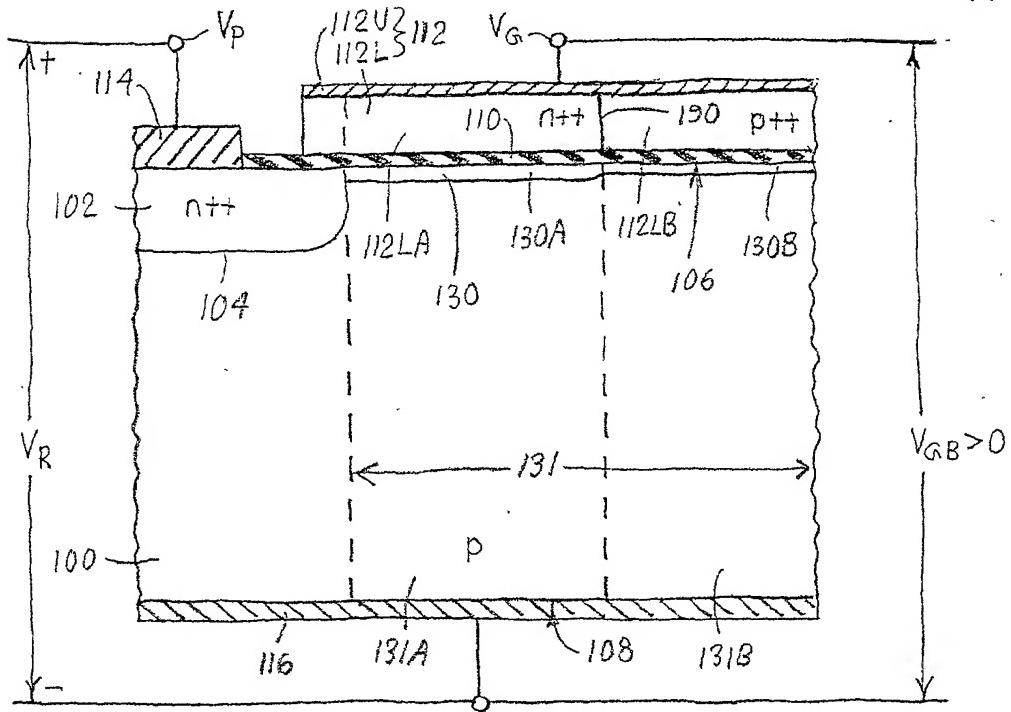


Fig. 14

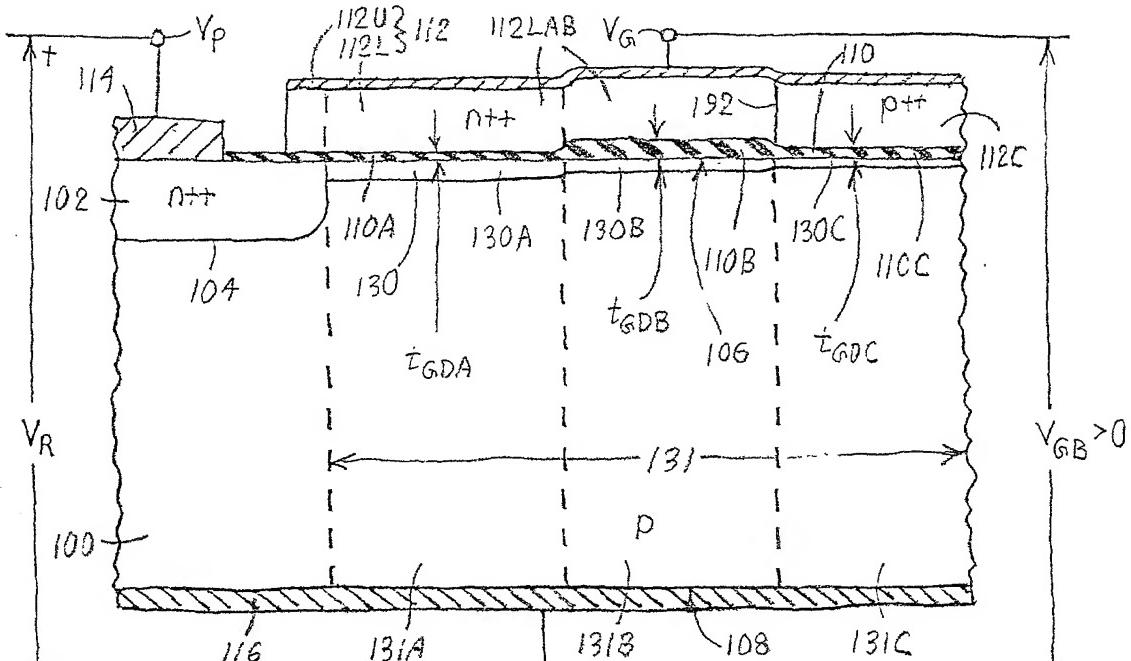


Fig. 15

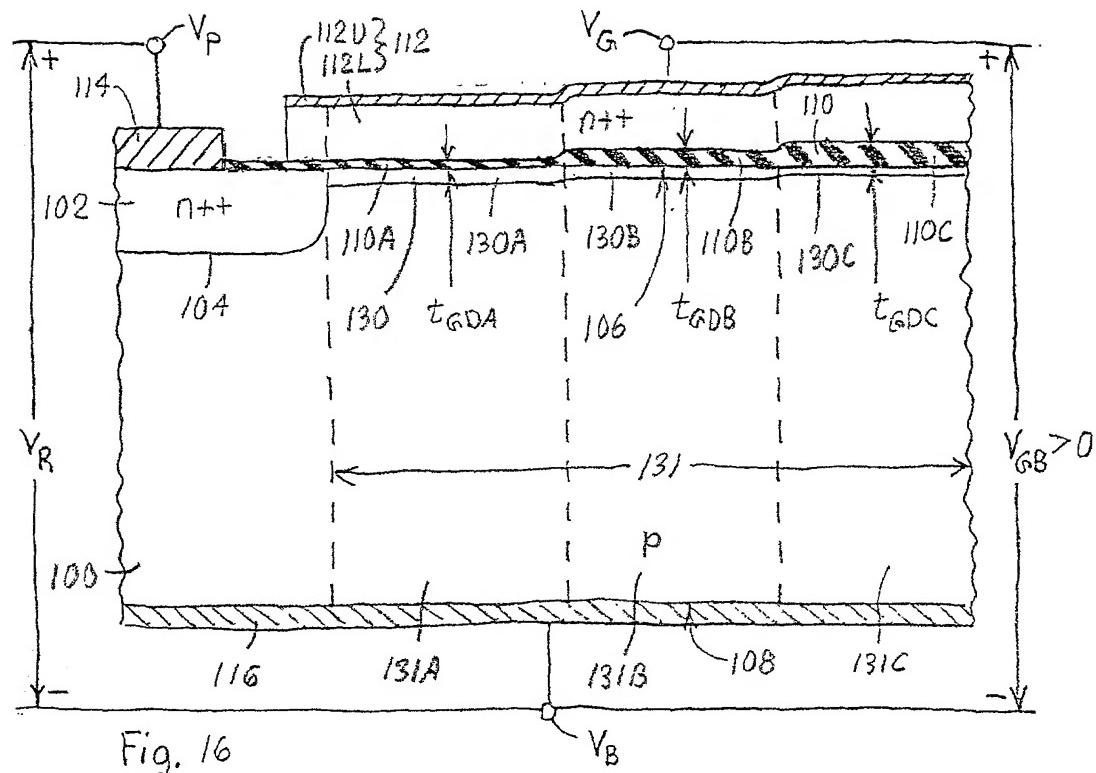


Fig. 16

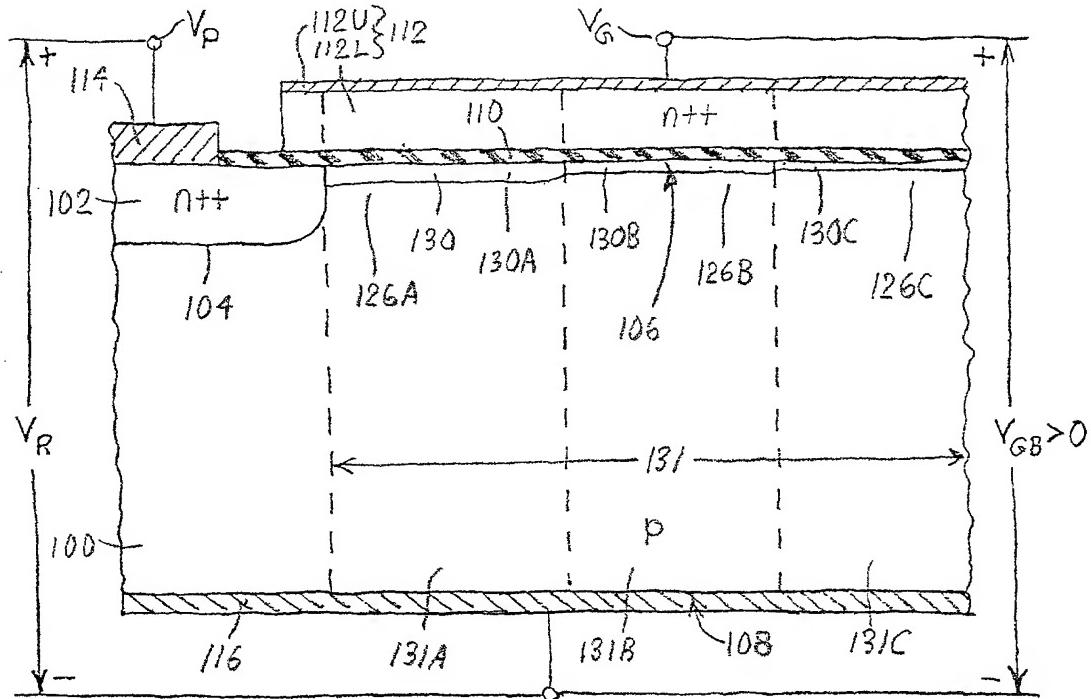


Fig. 17

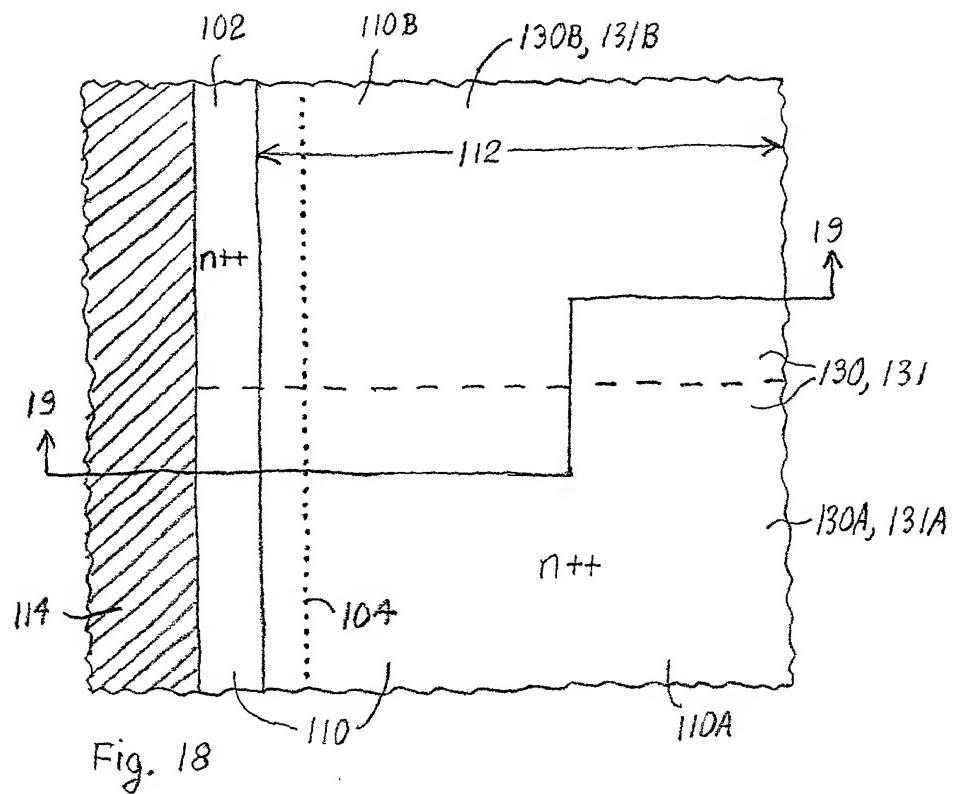


Fig. 18

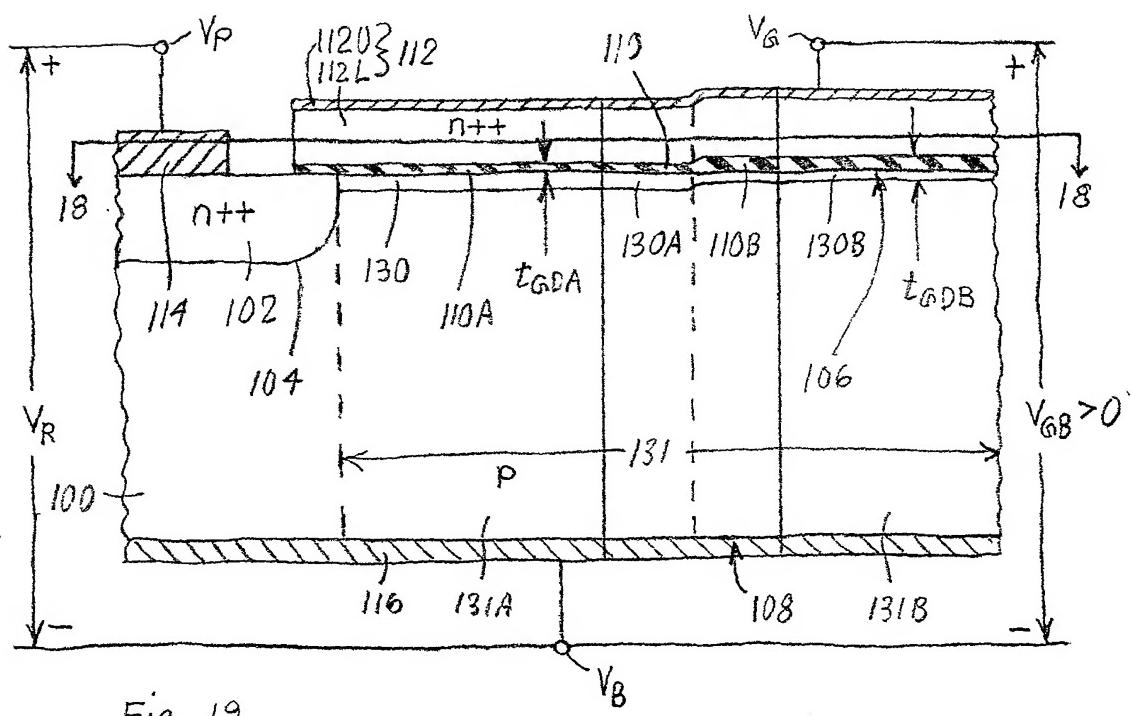


Fig. 19

2025 RELEASE UNDER E.O. 14176

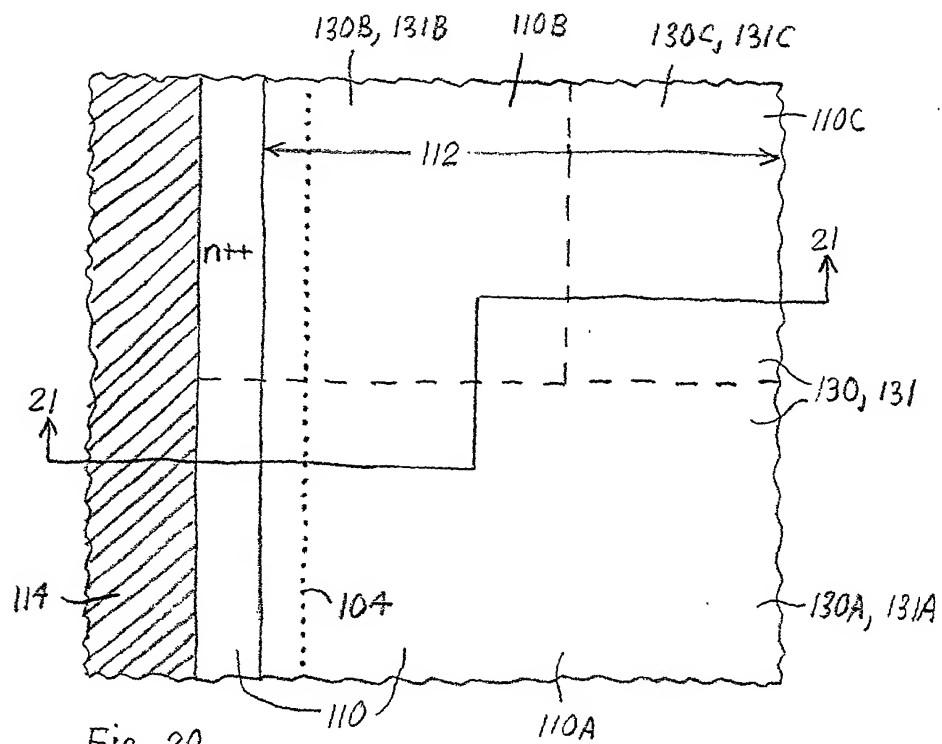


Fig. 20

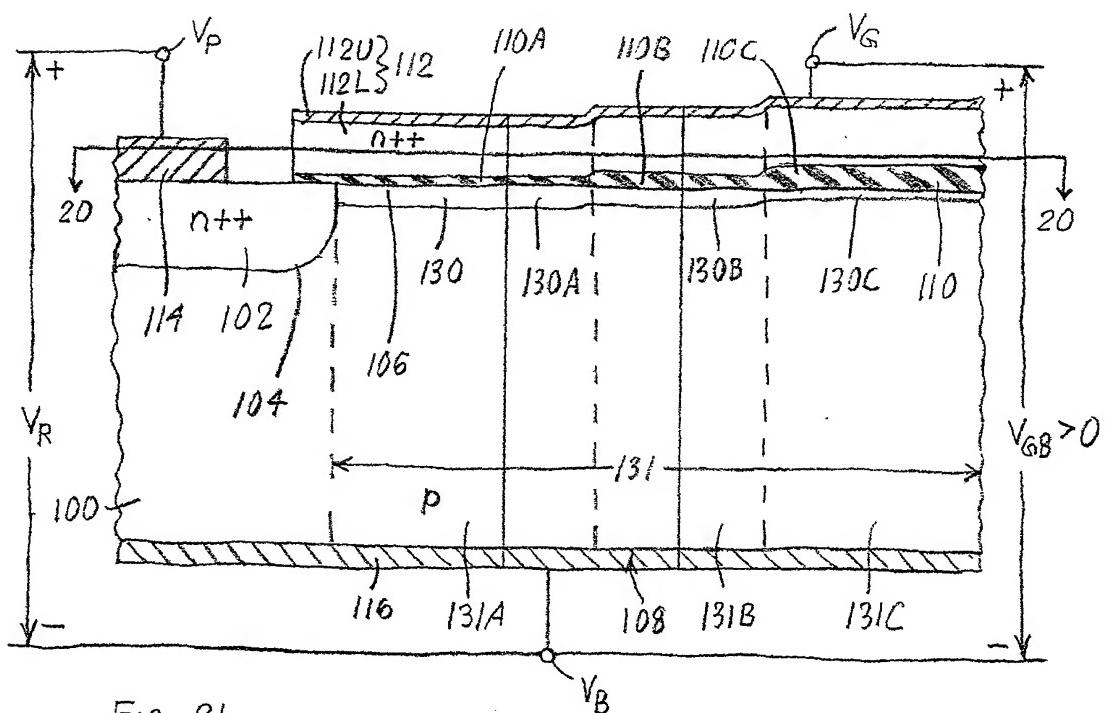


Fig. 21

1000514653-014600

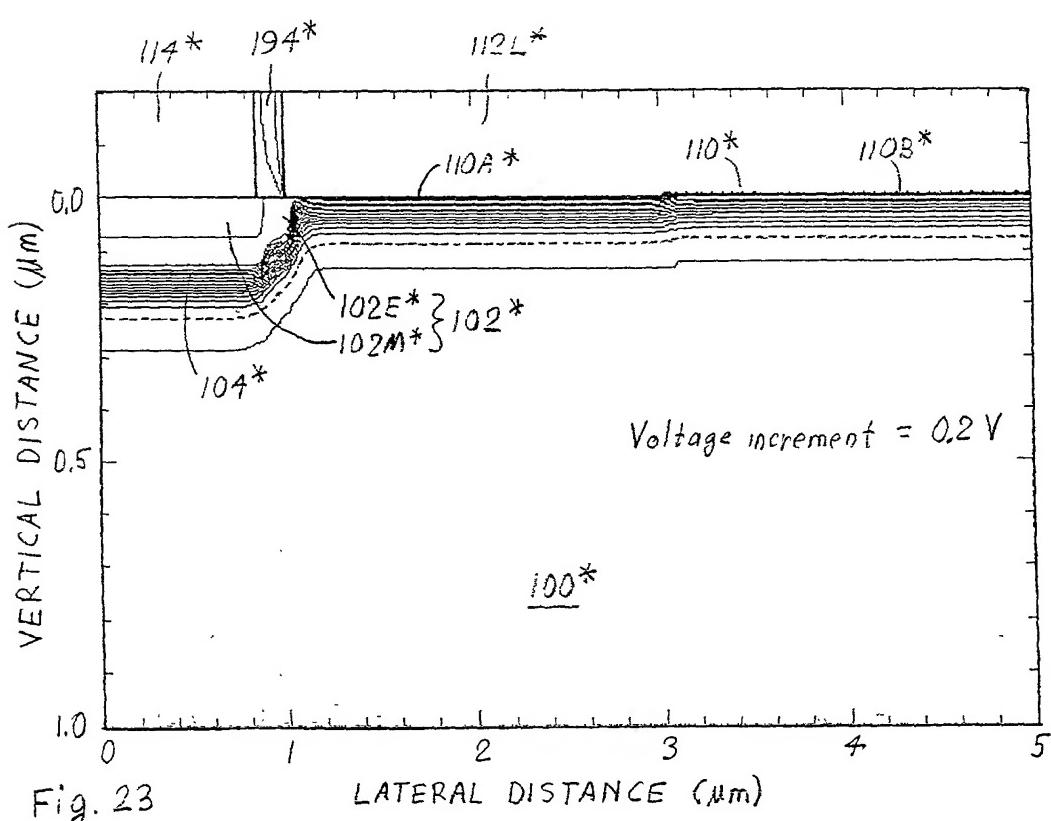
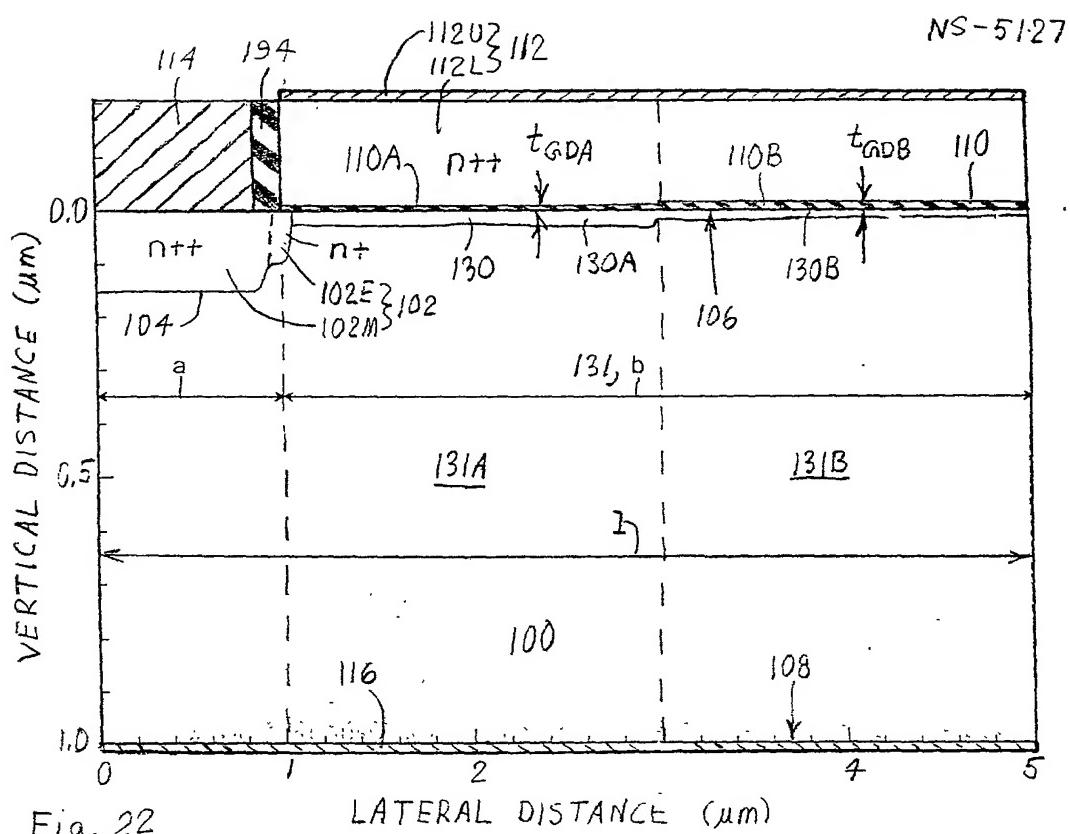
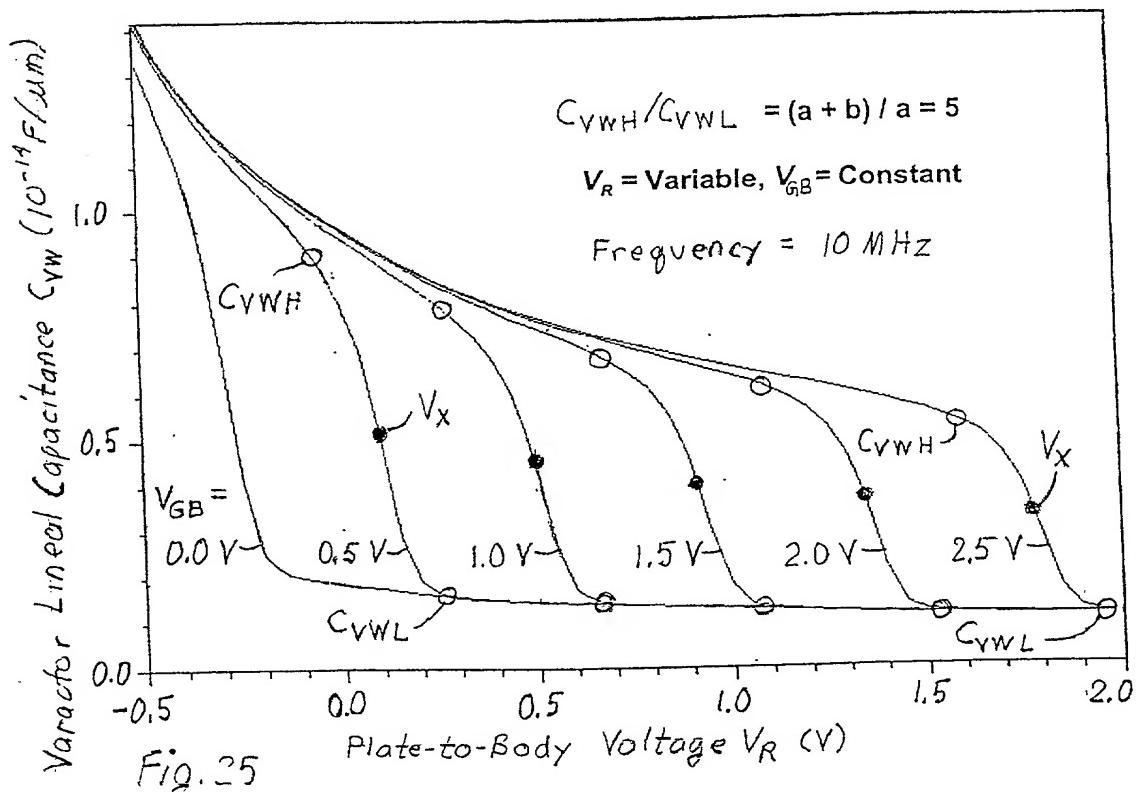
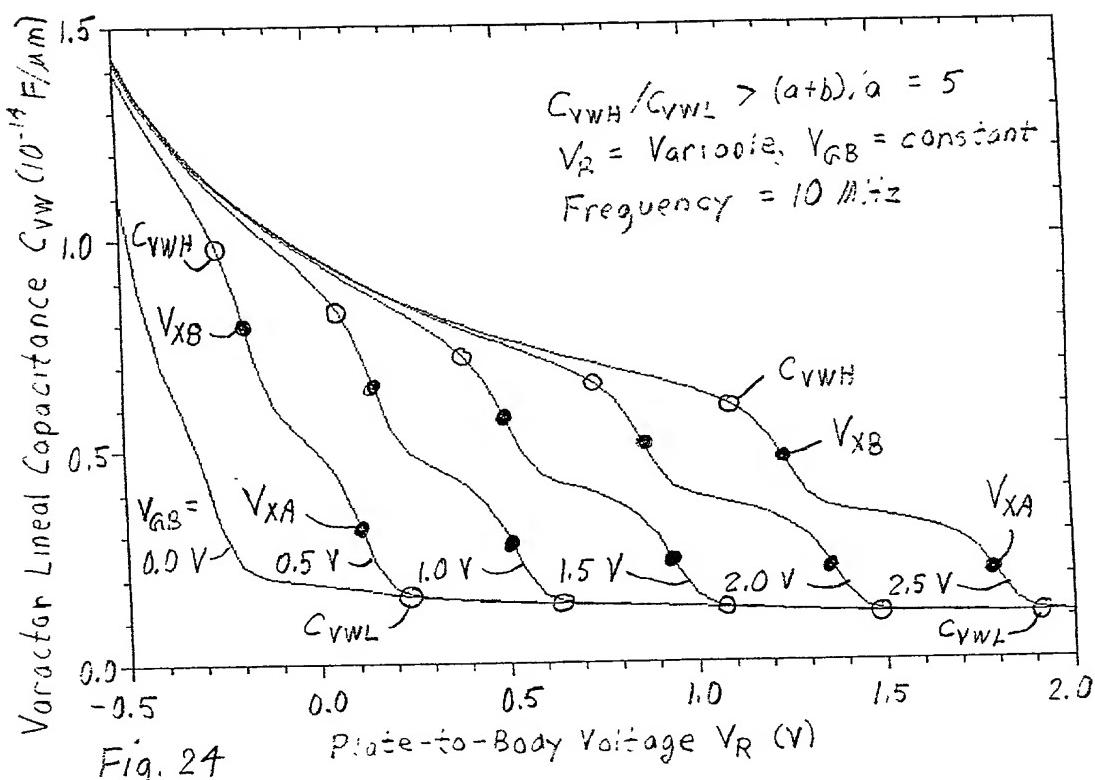
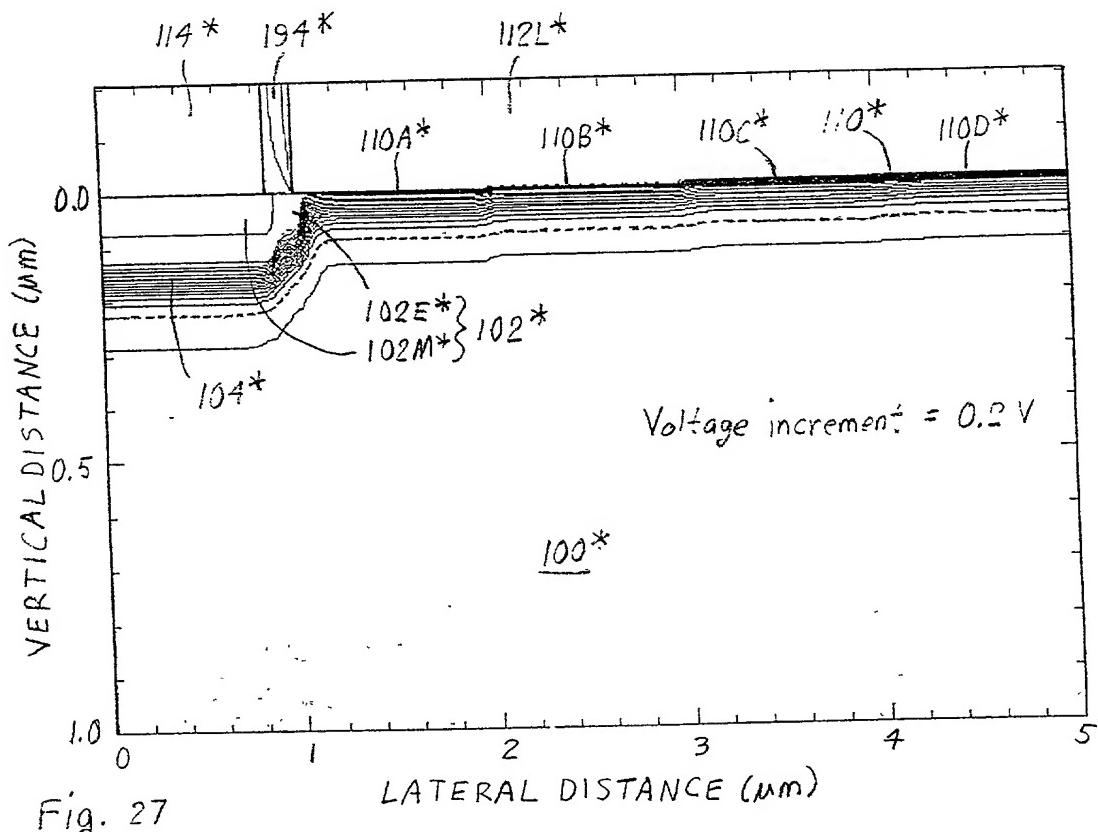
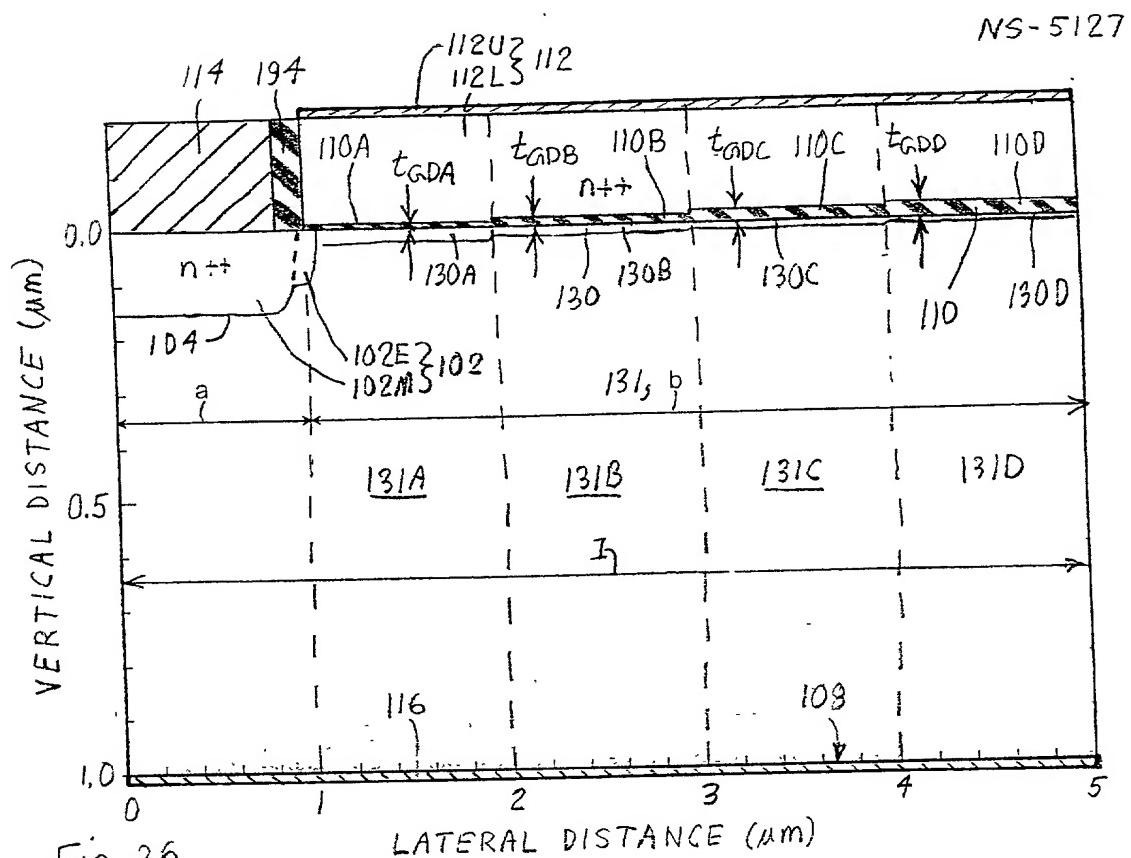


Fig. 23

NS-5127

2025 RELEASE UNDER E.O. 14176





NS-5127

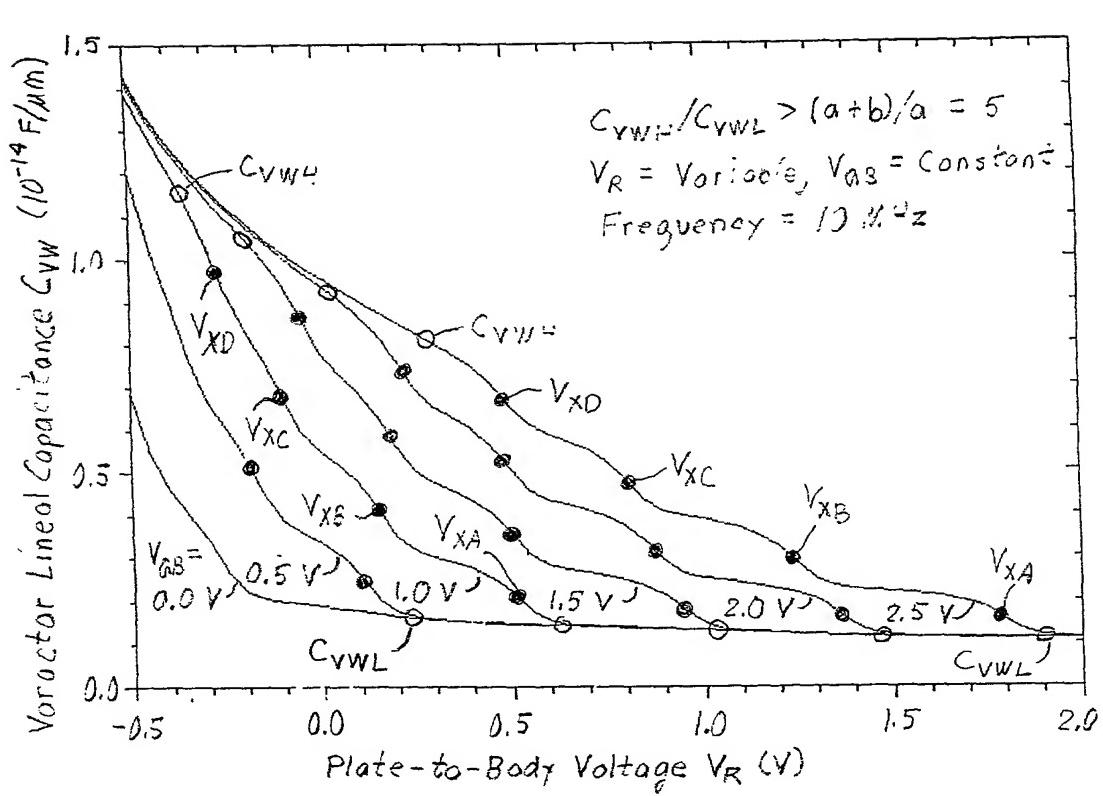


Fig. 28

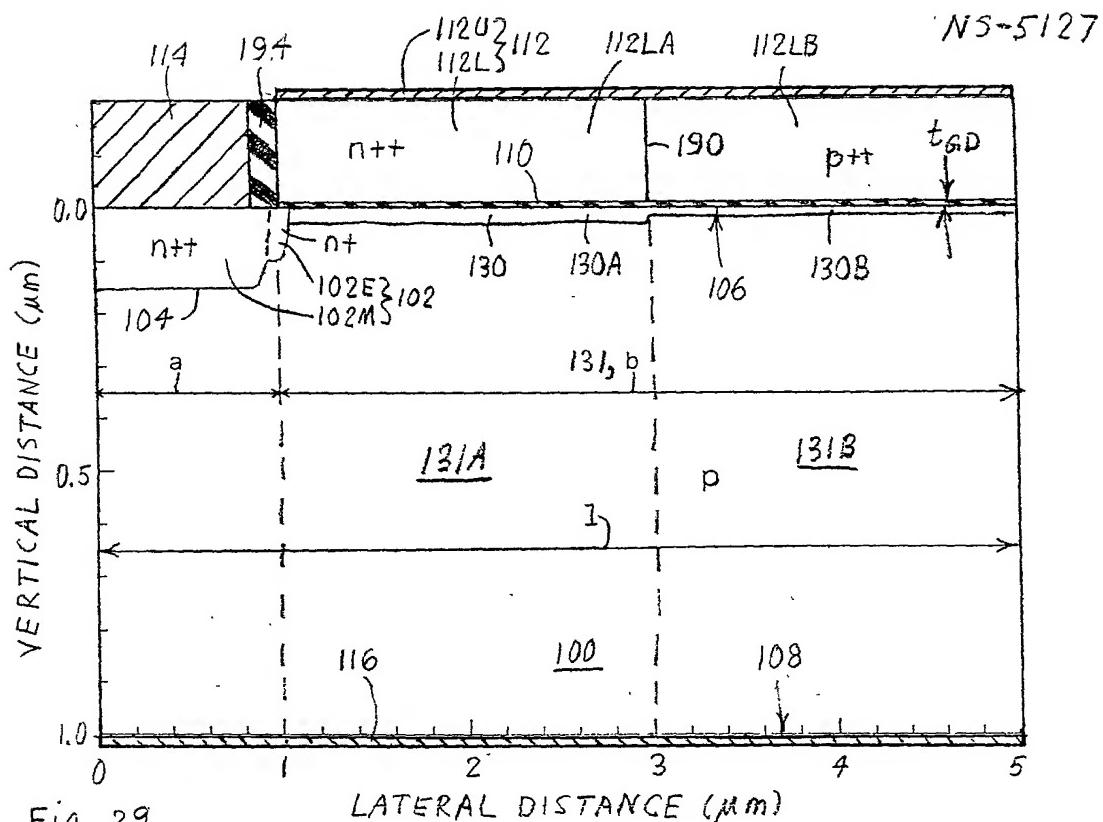


Fig. 29

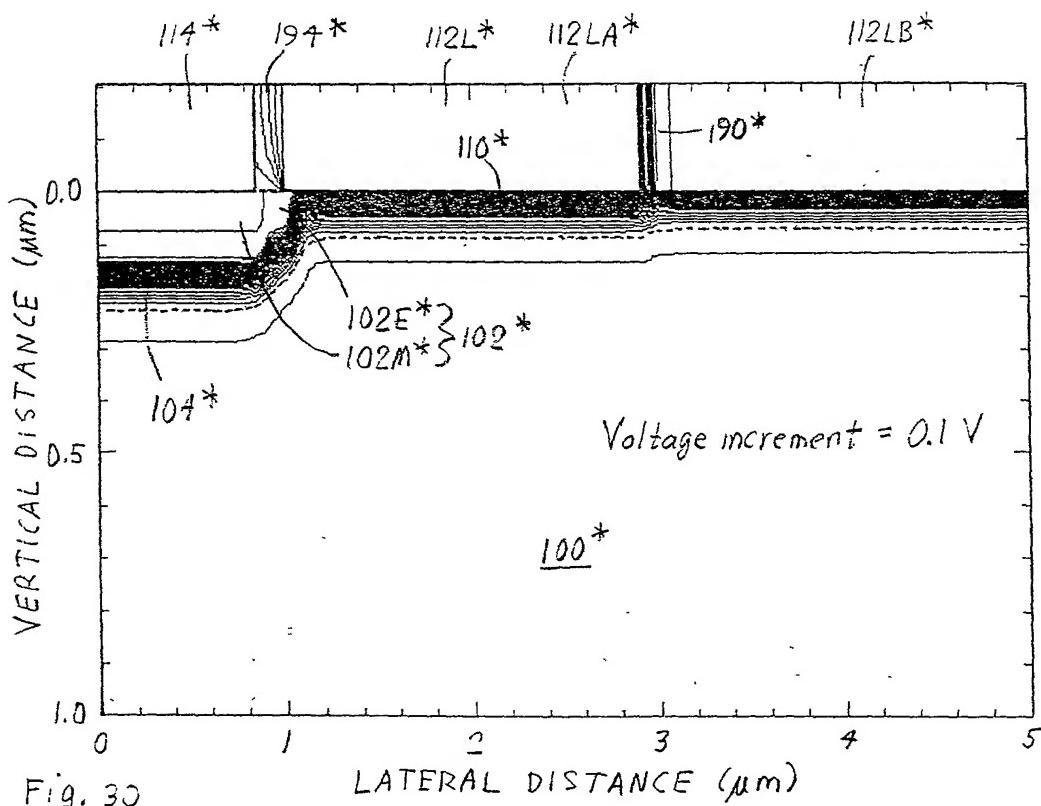


Fig. 30

2007 TFO - E59415001

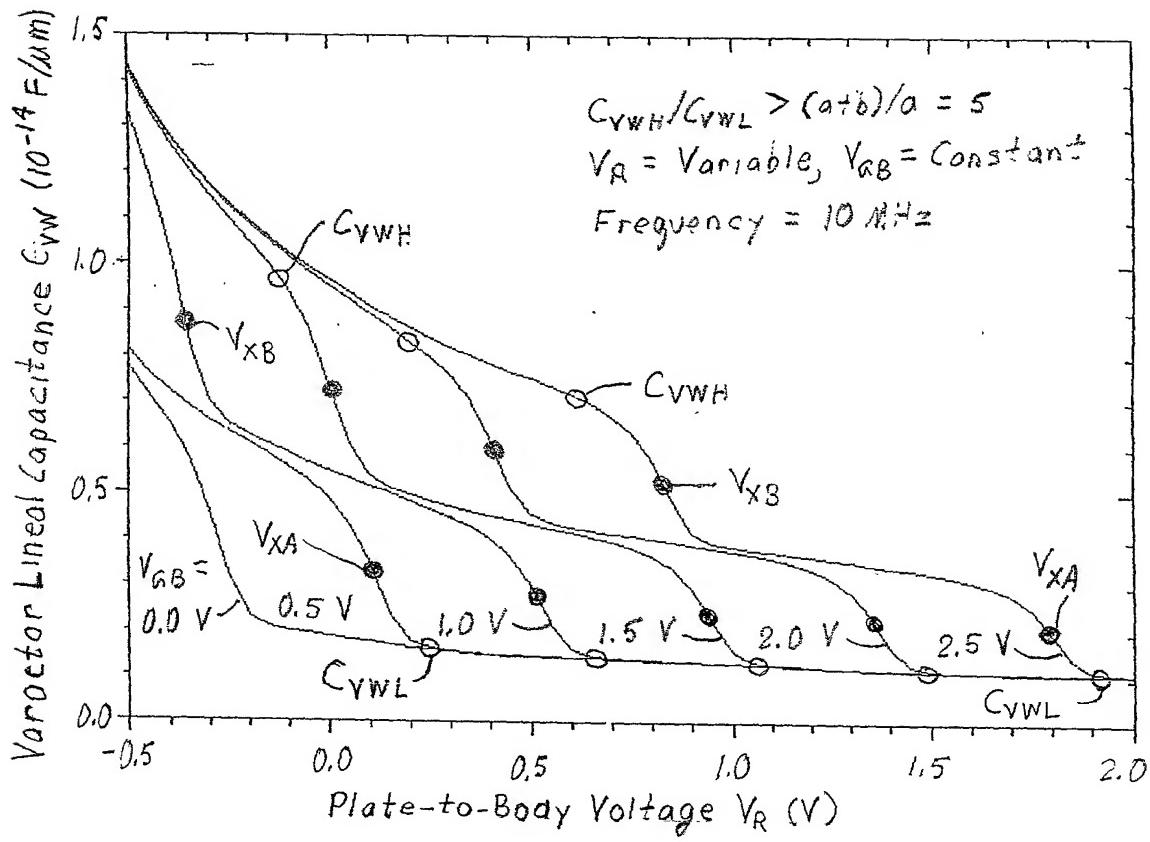


Fig. 31

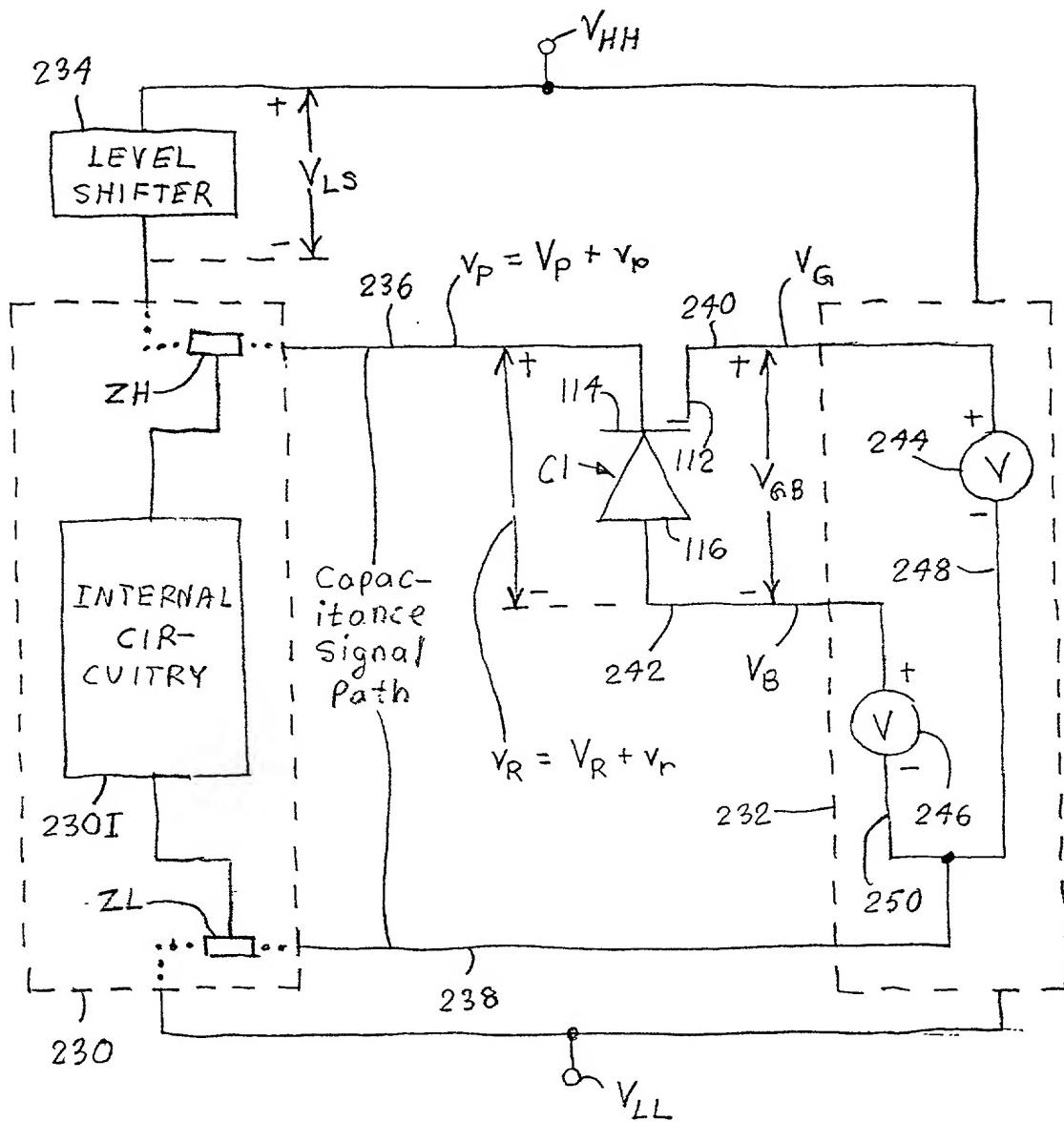


Fig. 32

100054553 - 04140202

Gate-Enhanced Junction Varactor With Gradual Capacitance Variation
Constantin Bulucea NS-5127 US
Sheet 7 of 26

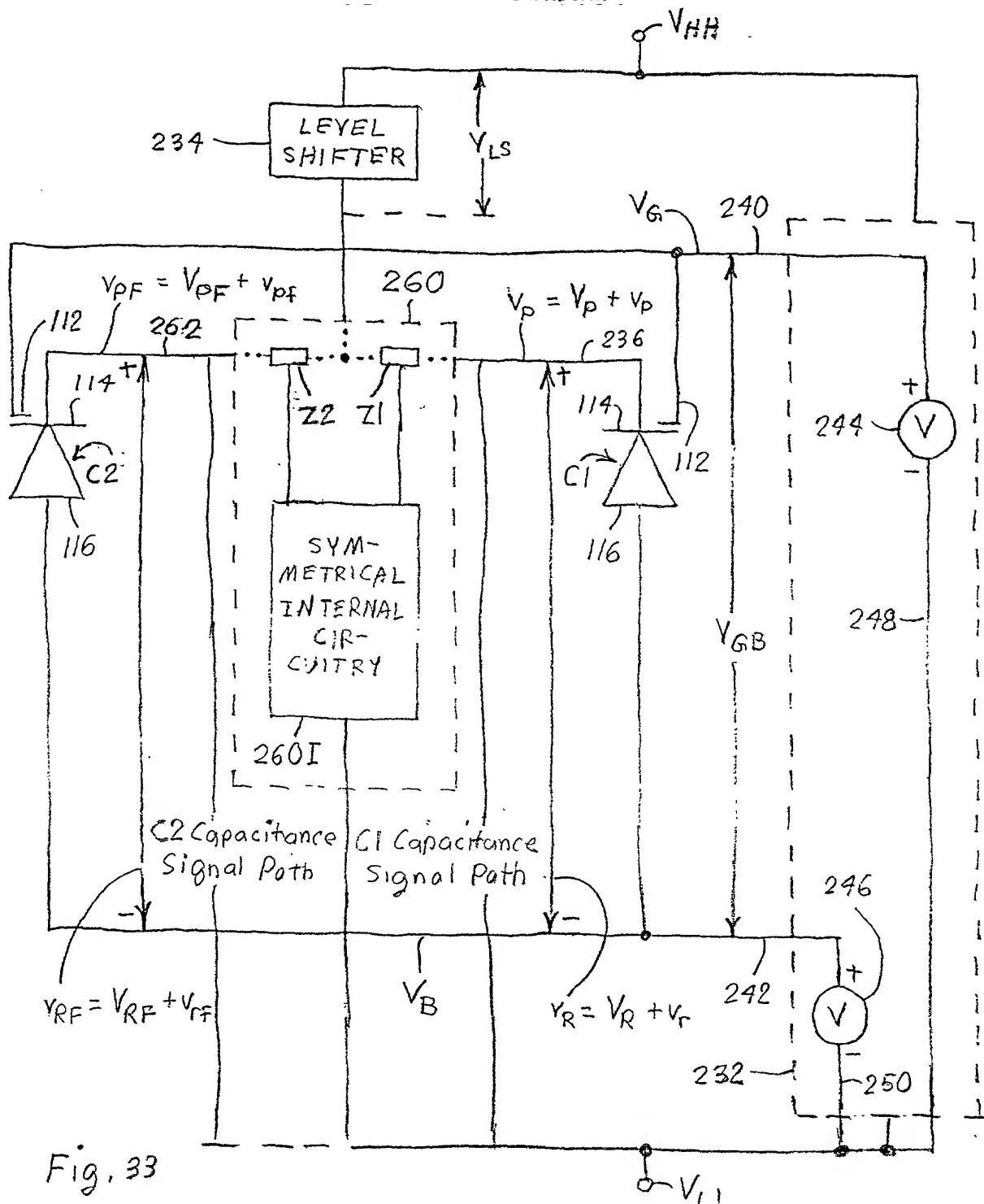


Fig. 33

Gate-Enhanced Junction Varactor With Gradual
Capacitance Variation
Constantin Bulucea NS-5127 US
Sheet 7 of 26

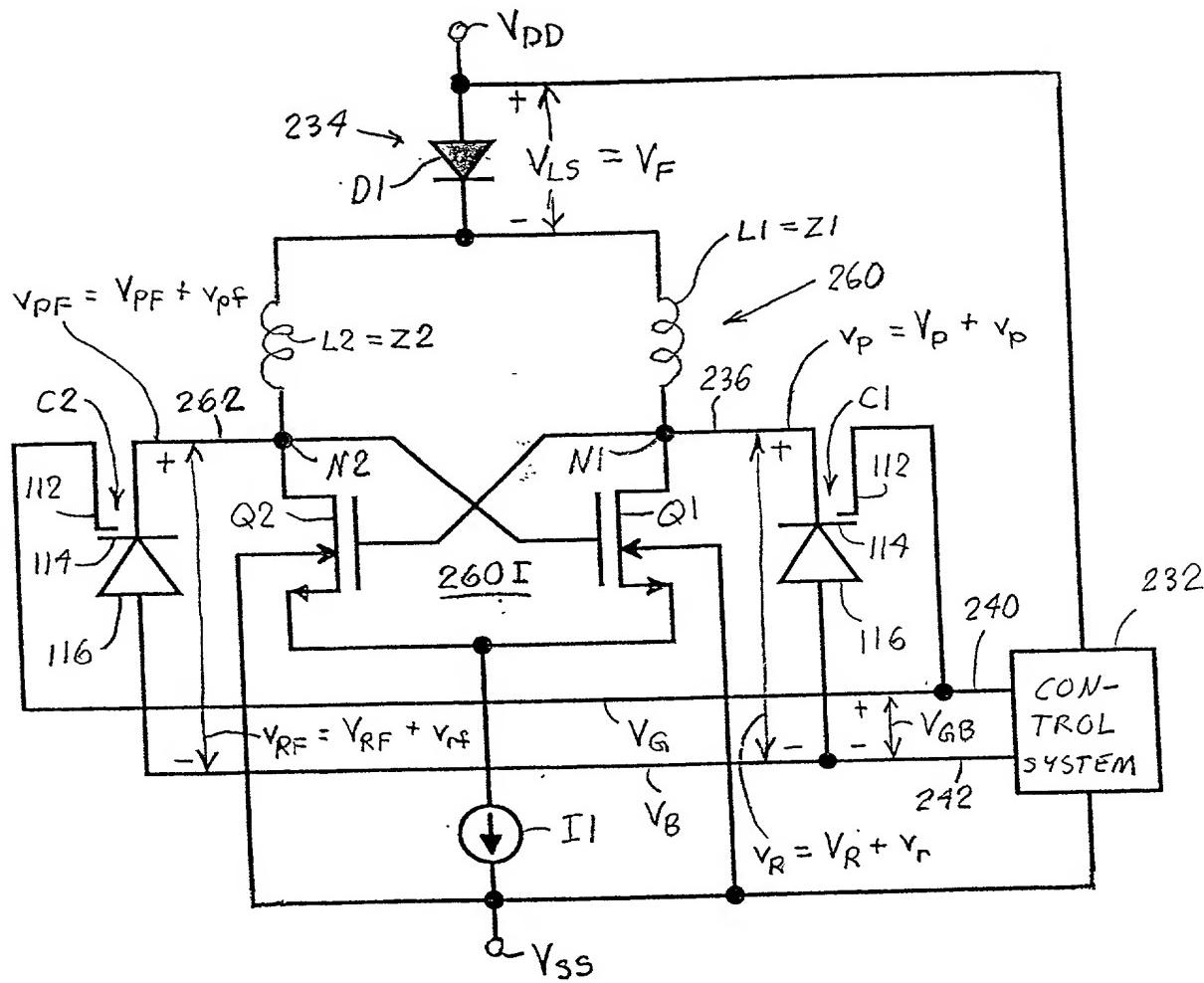


Fig. 34b

Gate-Enhanced Junction Varactor With Gradual
Capacitance Variation
Constantin Bulucea NS-5127 US
Sheet 2 of 26

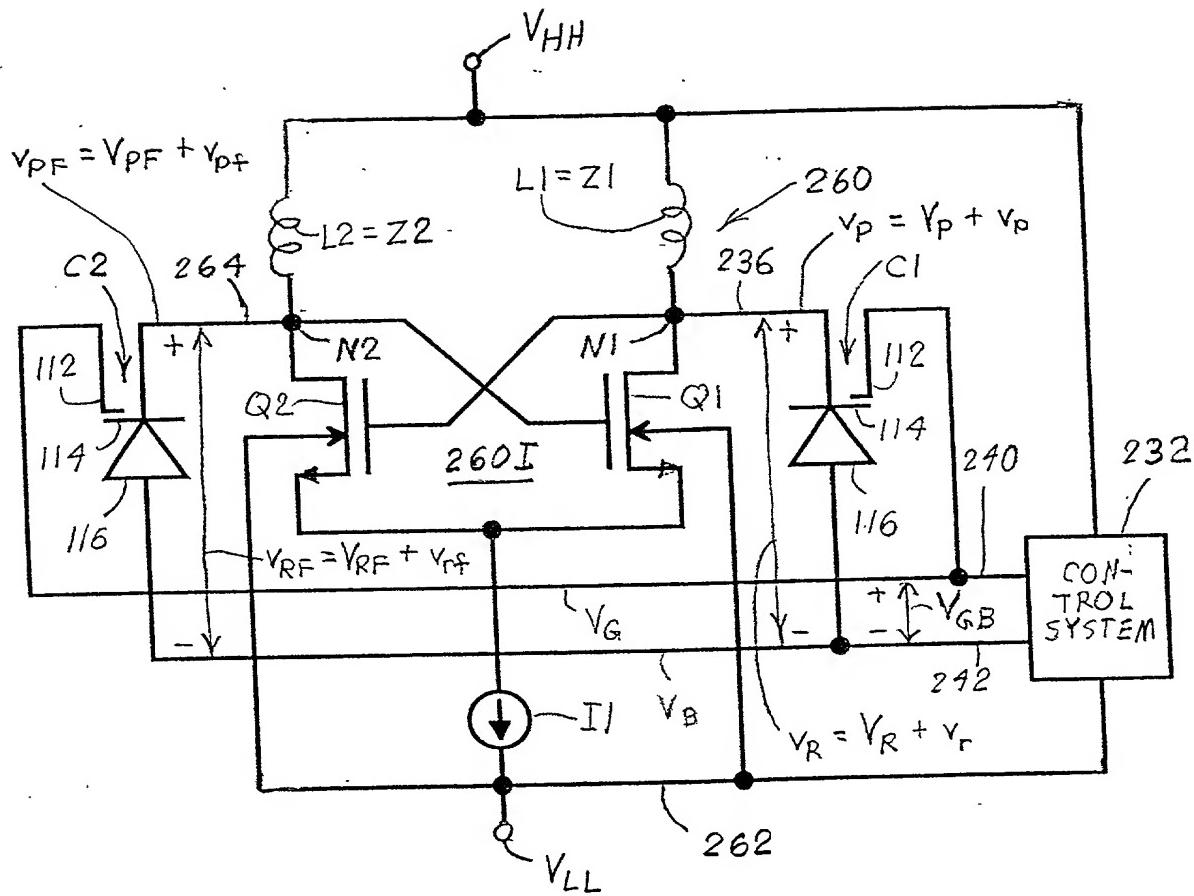


Fig. 34a

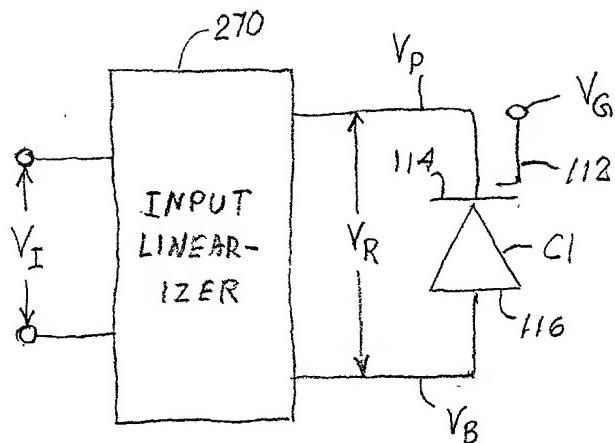


Fig. 35

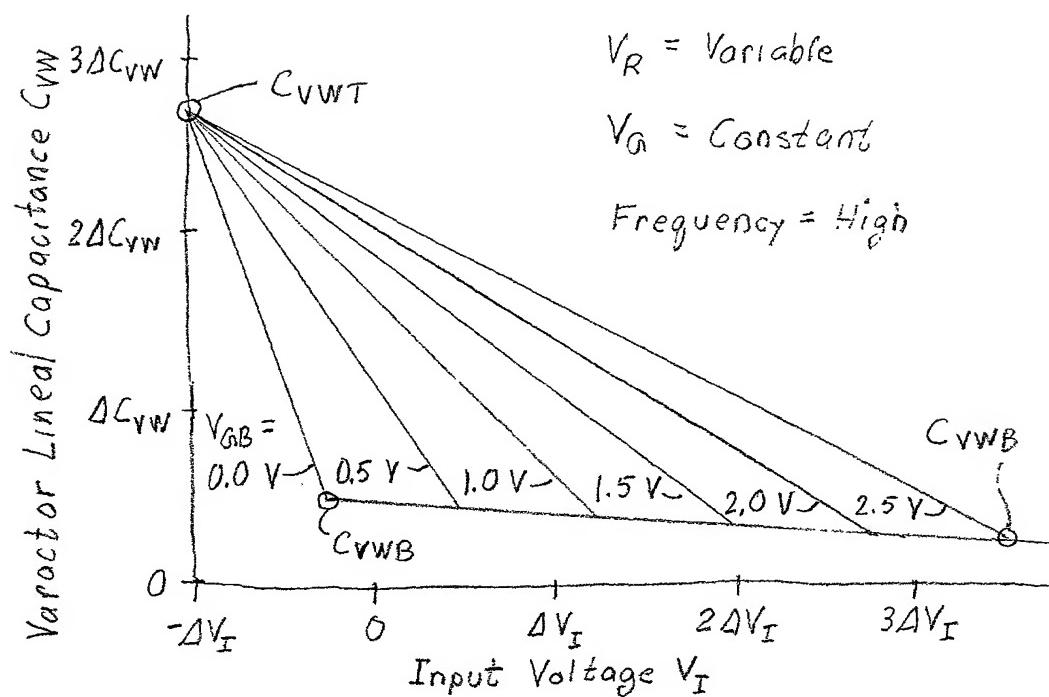


Fig. 36

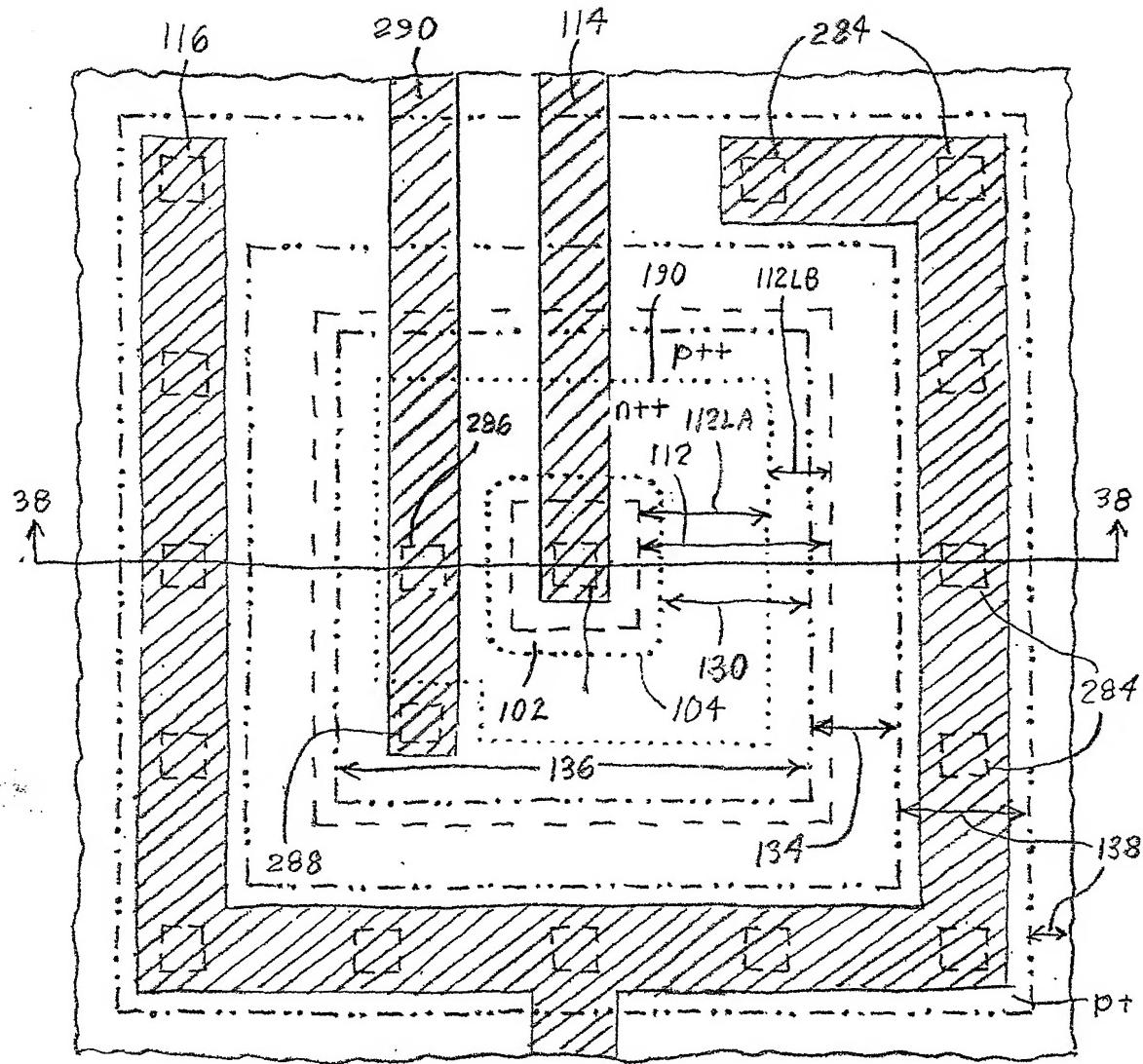


Fig. 37

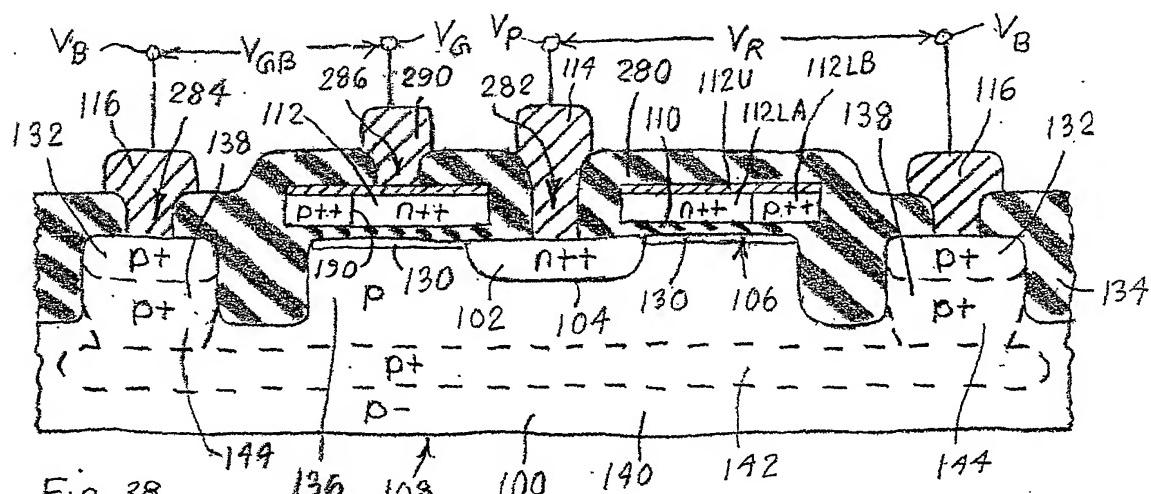


Fig. 38